

OCT 16, 2015

#207

# Apple Magazine™

TAKING FLIGHT

HARRY  
POTTER

E-BOOKS COME TO LIFE  
IN NEW APPLE EDITION

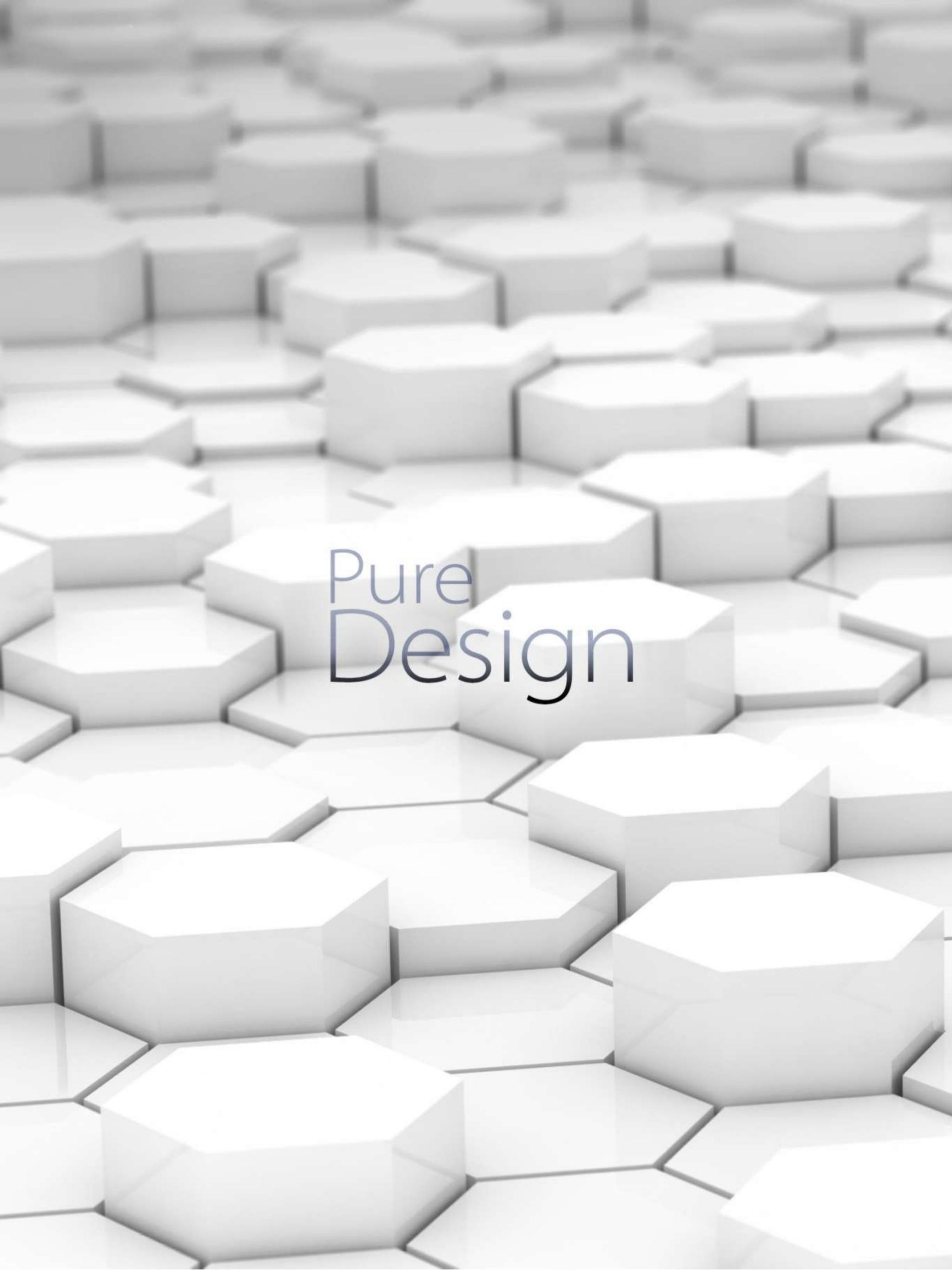
MOBILITY

DRIVERLESS  
BUSES

GREEK TOWN GLIMPSES  
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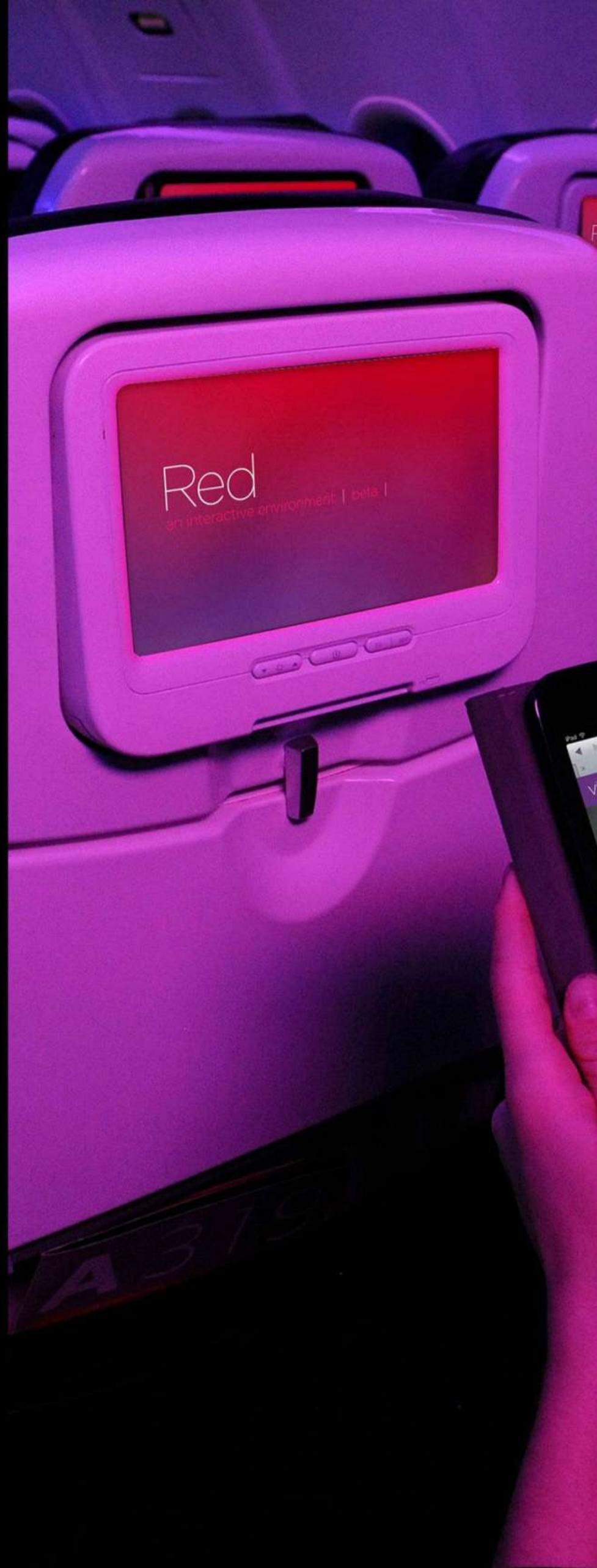
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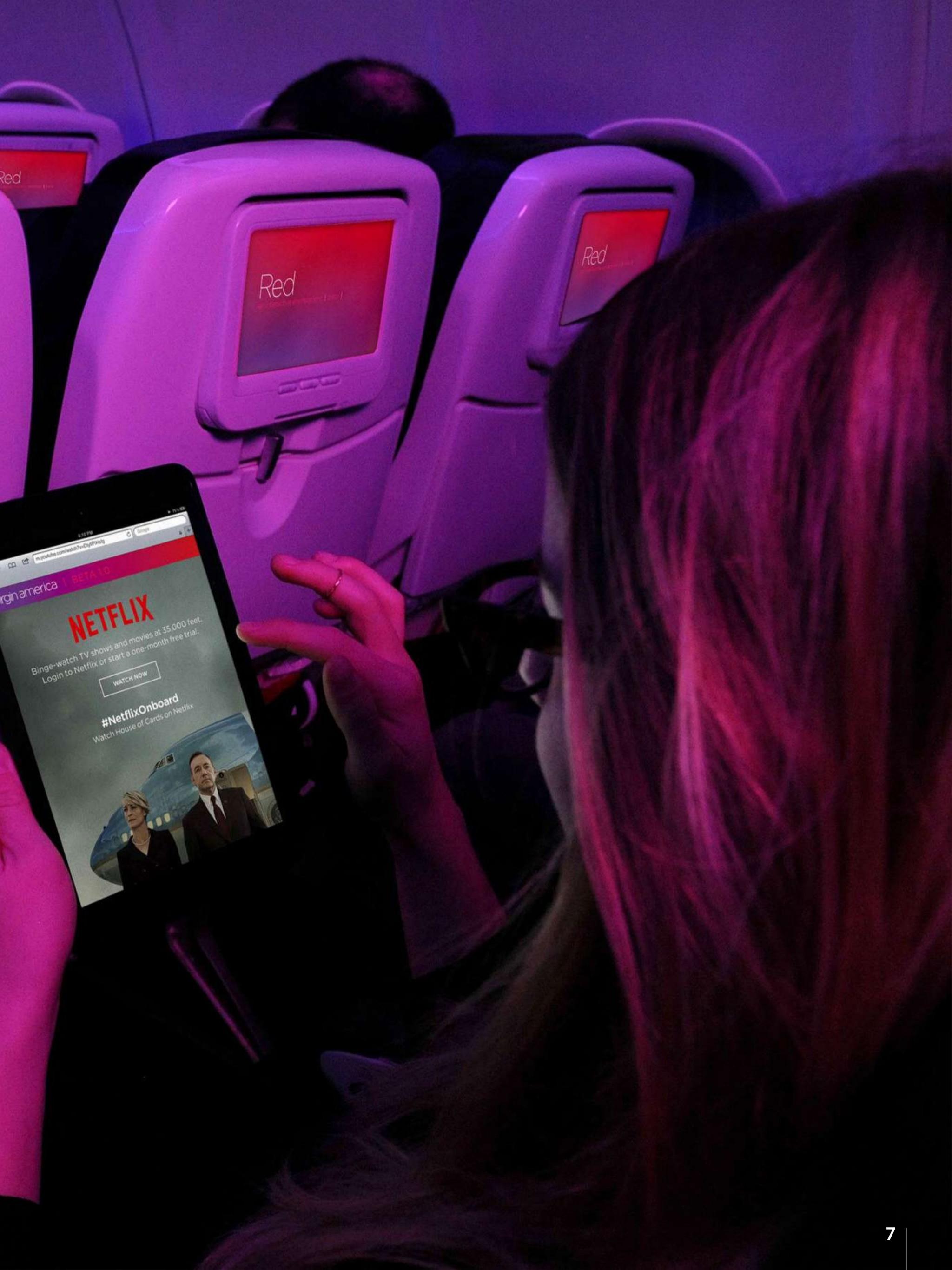
# NETFLIX RAISING US PRICE FOR MOST POPULAR VIDEO PLAN BY \$1

Netflix is raising the price of its Internet video service by \$1 for new customers in the U.S., Canada and some Latin America countries to help cover its escalating costs for shows such as "House of Cards" and other original programming.

The new price of \$10 per month for Netflix's standard plan - its most popular - marks the second time in 17 months that Los Gatos, California, company has boosted its U.S. rates by \$1. The trend reflects the financial pressure that Netflix is facing as it competes against Amazon.com, HBO and other services for the rights to TV series and movies that will expand its audience.

Netflix's 42 million existing U.S. subscribers are being insulated from the price bump. That's a move CEO Reed Hastings is taking in an effort to avoid a repeat of the customer backlash that stung the company four years ago when it raised rates by as much as 60 percent for subscribers who wanted Internet video and DVD-by-mail rentals.

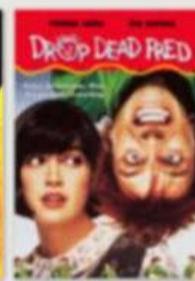




A photograph of a man and a young child sitting on a couch, watching a movie on a screen. The man is holding a blue remote control. The screen displays the Netflix interface, showing the "Instant Queue" section with movie thumbnails for "ACE VENTURA", "Alice in wonderland", "DROP DEAD FRED", and "Dennis the Menace".

NETFLIX

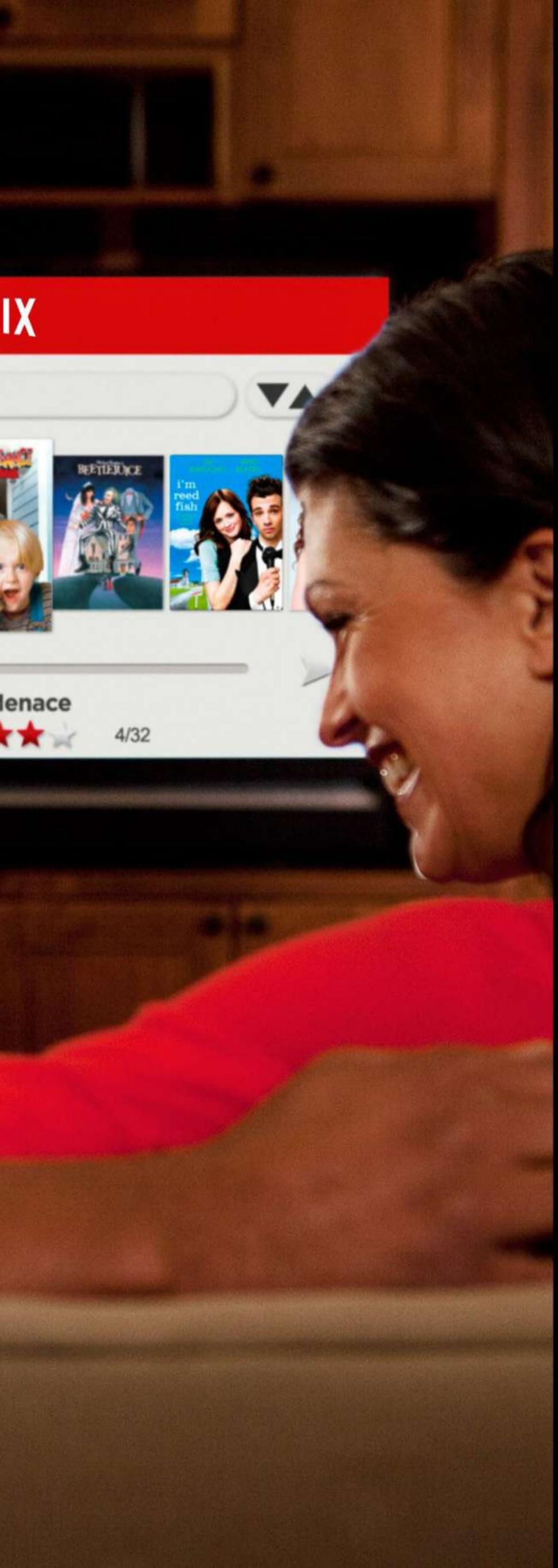
● Instant Queue



Dennis the M

1h 40m





The abrupt price increase in 2011 triggered an exodus that cost Netflix more than 800,000 subscribers and caused its stock to lose 80 percent of its value in a tumultuous 13-month period.

The experience taught Netflix to reward its existing subscribers as higher prices are phased in on new customers.

Subscribers who have been with Netflix since May 2014 will still pay \$8 per month under a two-year rate freeze adopted when the company last raised its U.S. prices by \$1. Customers who signed up since the last price increase will pay \$9 per month until October 2016.

Netflix's audience continued to expand after last year's price increase, a pattern that investors appear confident that will occur again with the latest uptick in rates. Netflix's stock surged \$6.83, or 6.8 percent, to \$114.93 Thursday.

Wall Street has been hoping Netflix would increase its prices because its profit margins have been shrinking as the company's expenses climb for programming and an aggressive international expansion.

Netflix Inc.'s programming costs are expected to rise from \$3 billion this year to \$5 billion next year. The research firm Ampere Analysis predicts Netflix will be paying \$6 billion annually for its line-up by 2018.

Some of that money is being spent on previously released TV series and movies, but Netflix is pouring more money for shows that can only be found on its service - a formula that has been highly successful for HBO's pay-TV channel.

The strategy has paid off for Netflix too as its U.S. customer base has swelled by about 70 percent

The background of the page features a close-up, slightly blurred photograph of a television screen. The screen displays a person's face, though it is not sharp enough to be identified. The lighting is dramatic, with strong highlights and shadows.

from 25 million subscribers since the 2013 debut of "House of Cards," the service's first major splash in original programming. Netflix now features dozens of exclusive programs.

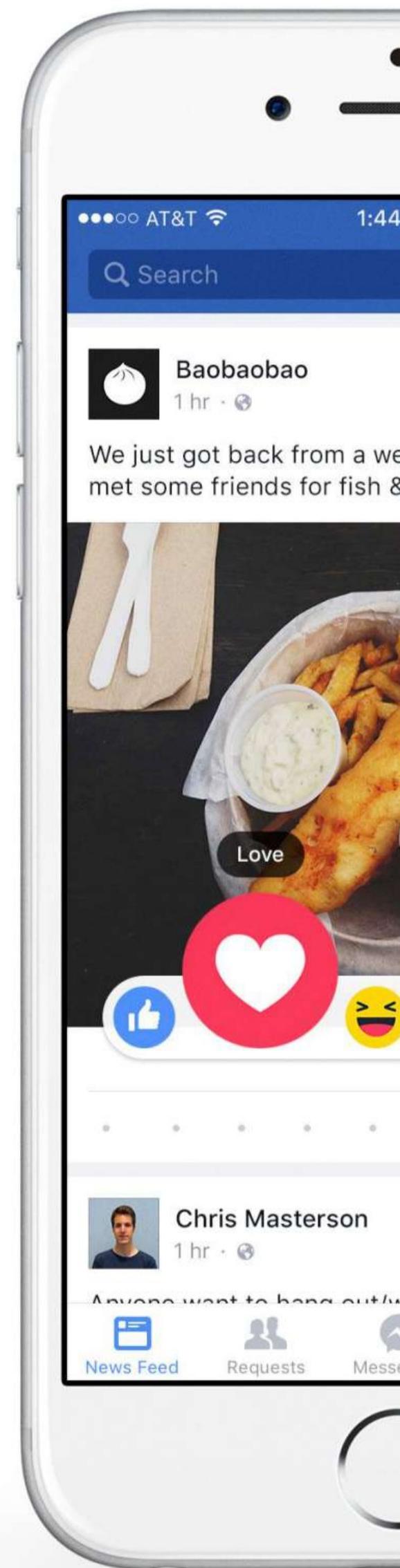
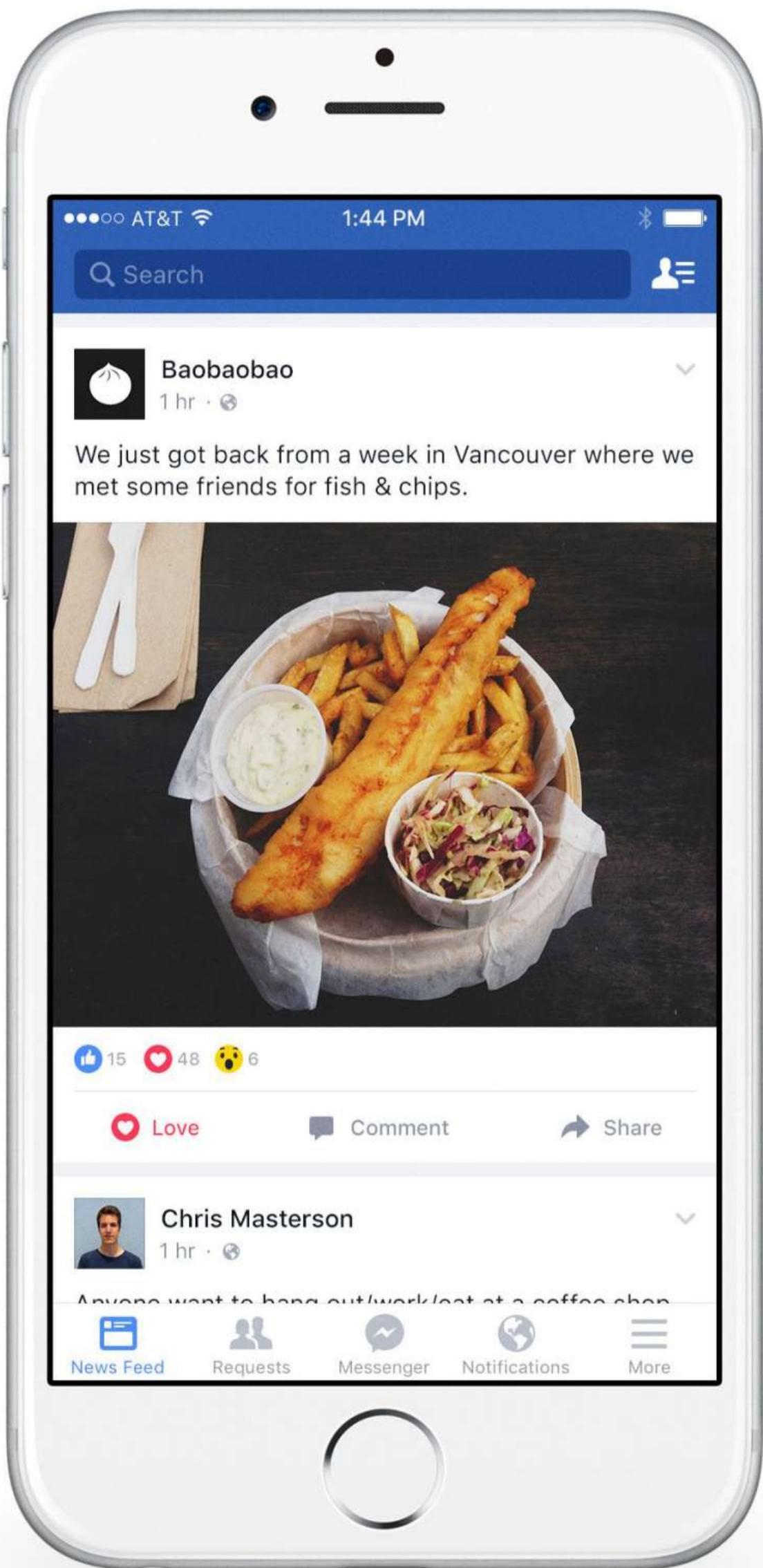
Netflix's higher price might help Amazon's rival Internet video service, which is sold with a bundle of other features that includes free shipping from Amazon's online store for \$99 annually, or \$8.25 per month.

Some analysts, though, view Netflix's biggest competition as HBO, which sells an Internet-only version of its channel for \$15 per month.

HBO's price may give Netflix leeway to raise its prices even further, according to Per Sjofors, CEO of consulting firm Atenga. His analysis of customer sentiment concluded Netflix could charge as much as \$13 per month for its standard Internet plan without hurting its growth.

Netflix's standard plan allows subscribers to stream video on as many as two different devices simultaneously and watch programs in high definition. A basic plan available to new customers for \$8 per month limits watching to just one screen, with no high-definition option.





# BEYOND 'LIKE': 6 WAYS YOU MIGHT SOON EMOTE ON FACEBOOK



Sometimes "Like" just doesn't cut it. So how about Love or Angry? Haha or Sad? Or just Yay or Wow?

Facebook is going "Inside Out" on the Like button, adding a range of new emotional reactions to the iconic thumbs-up icon it launched in 2009.

You won't see the new emoji right away unless you live in Ireland or Spain, the two locations the Menlo Park, California-based social network chose to begin testing them on Friday.

But Chris Cox, Facebook's chief product officer, says in a post that the company plans to use the feedback from the test run to make improvements, with the hope of launching the buttons globally "soon."

Many Facebook users have been clamoring for the company to add a “Dislike” button for years, arguing that hitting the “Like” button in many instances - such as in reaction to a tragic news event - can seem a bit shallow, or even inappropriate.

At the same time, typing out a thoughtful comment on a phone isn’t always easy.

Cox says the company studied Facebook comments to see what reactions were most universally expressed through Facebook and based the new buttons on that.

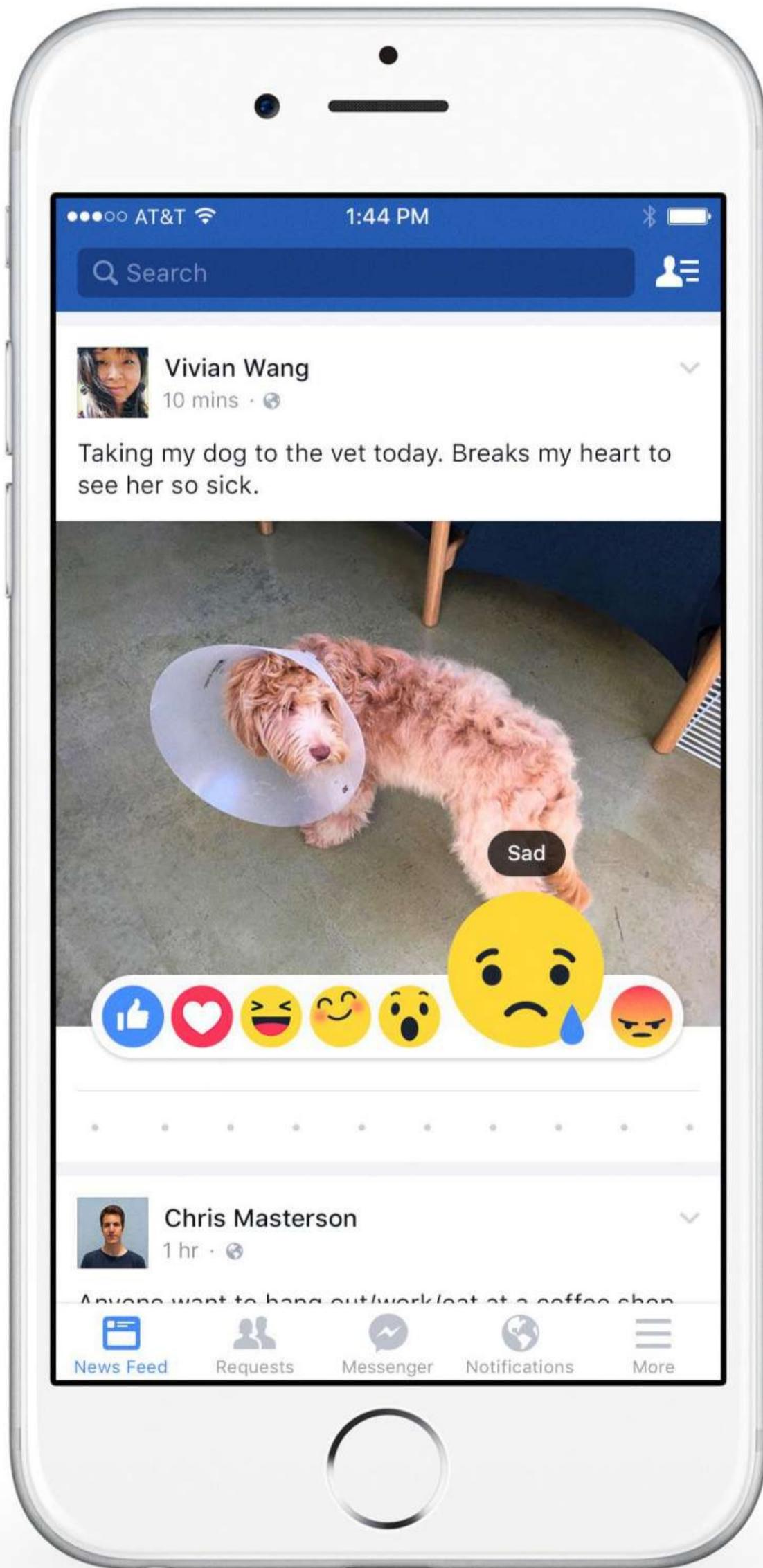
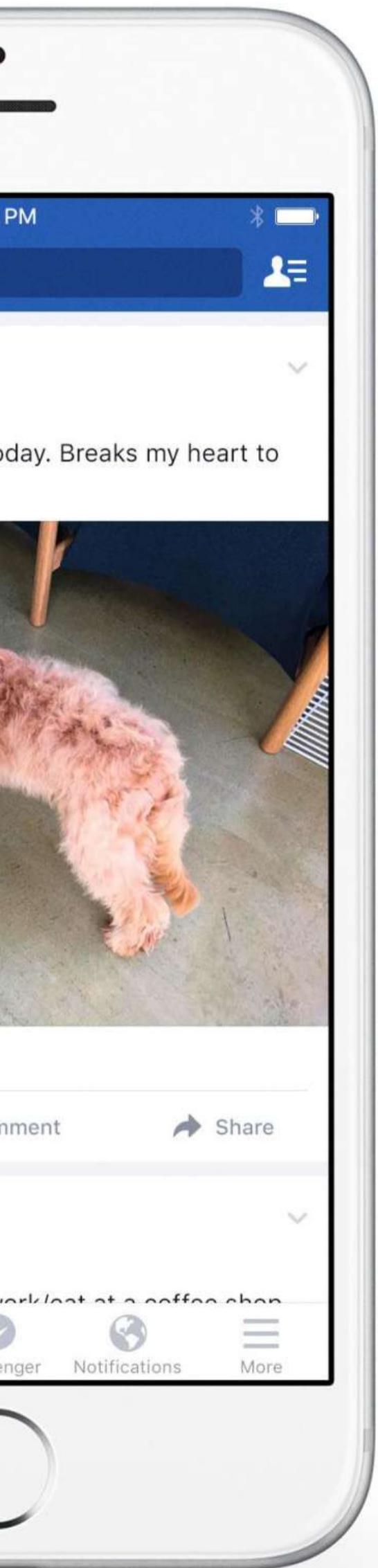
“As you can see, it’s not a ‘dislike’ button, though we hope it addresses the spirit of this request more broadly,” Cox’s post reads.

In order to see the buttons - which are available in the iPhone, Android and desktop versions of Facebook used in Ireland and Spain - users can either long-press or hover over the “Like” button. The buttons will then appear for users to scroll through and select.

Counters underneath a post will track how many of each reaction the post has received, similar to how likes are tracked now.



Image: Gary He





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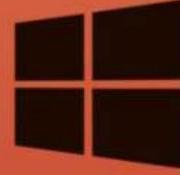
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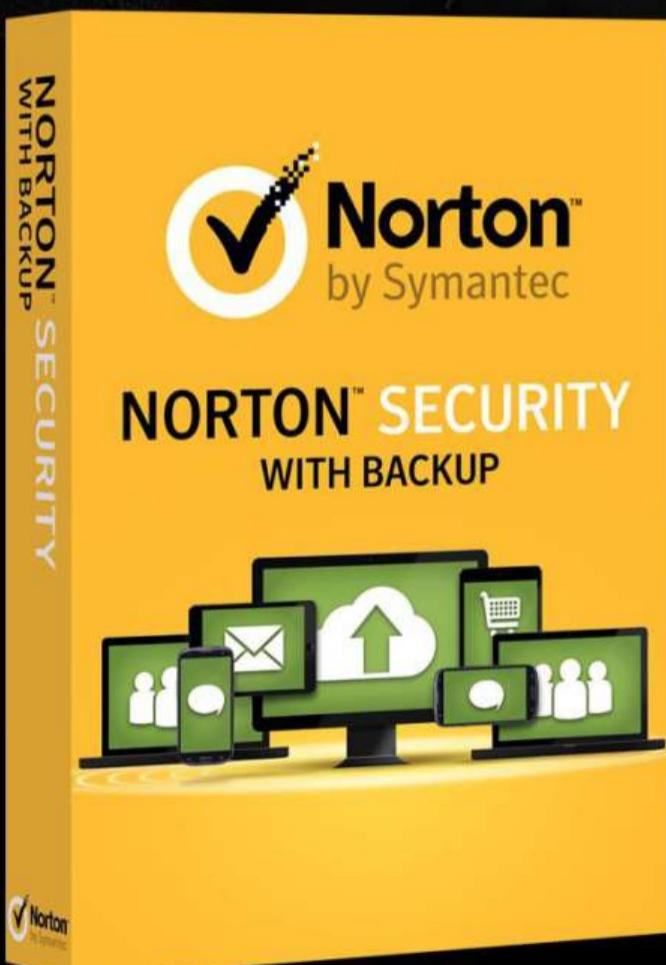
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# 'HARRY POTTER' E-BOOKS COME TO LIFE IN NEW APPLE EDITION

You don't need to be a wizard to see the "Harry Potter" books come to life.

The seven books are getting a makeover with more than 200 new illustrations in enhanced e-books made for Apple devices. More than half of the illustrations are animated or interactive, with such touches as a golden snitch from Quidditch matches flying away as you tap it on the screen. Series creator J.K. Rowling also goes deeper into some of the characters and story lines with a handful of pop-up annotations.

The editions, released Thursday, are exclusive to Apple's iBooks Store and require an Apple Inc. mobile device or a Mac computer to read. For other devices, including Amazon's Kindle, standard electronic editions are available through Rowling's Pottermore site.





It lunged blindly — Harry dodged and it hit the Chamber wall. It lunged again, and its forked tongue lashed Harry's side. He raised the sword in both his hands —

The basilisk lunged again, and this time its aim was true — Harry threw his whole weight behind the sword and drove it to the hilt into the roof of the serpent's mouth —

But as warm blood drenched Harry's arms, he felt a searing pain just above his elbow. One long, poisonous fang was sinking deeper and deeper into his arm and it splintered as the basilisk keeled over sideways and fell, twitching, to the floor.

Harry slid down the wall. He gripped the fang that was spreading poison through his body and wrenched it out of his arm. But he knew it was too late. White-hot pain was spreading slowly and steadily from the wound. Even as he dropped the fang and watched his own blood soaking his robes, his vision went foggy. The Chamber was dissolving in a whirl of dull color.

The makeover offers readers young and old a new way to engage with the story. It also gives Rowling and her publishers an opportunity to resell these best-selling books, the last of which came out eight years ago. It's akin to Hollywood releasing the same movies in new formats and with bonus materials.

While the illustrations are new and exclusive to the enhanced editions, Rowling's annotations aren't necessarily so. Rowling has been regularly posting new essays on Pottermore. She has traced Harry's roots to a 12th-century wizard and has written about the origins of an invisibility cloak that appears throughout the series. Rowling has also penned supplemental books, including "The Tales of Beedle the Bard," a children's book that was referenced in the last "Harry Potter" book.

Until recently, the Pottermore site also had a game that took readers through the books chapter by chapter, with riddles and other discoveries along the way. That game incorporated clips from the "Harry Potter" movies. The new e-books do not.





Instead, the new editions offer full-color illustrations and animation from Pottermore artists.

In one animation, you see multiple letters fly in through the fireplace with news of Harry's acceptance to Hogwarts wizardry school. In another, an owl, a cat and the fog come to life on Platform 9 3/4, where a Hogwarts-bound train awaits. On the train, you see landscape moving by through a window.

In one scene of a feast, you can slide left and right to see the rest of a long table covered with food. It's not obvious which illustrations are interactive. The idea is to get readers to explore.

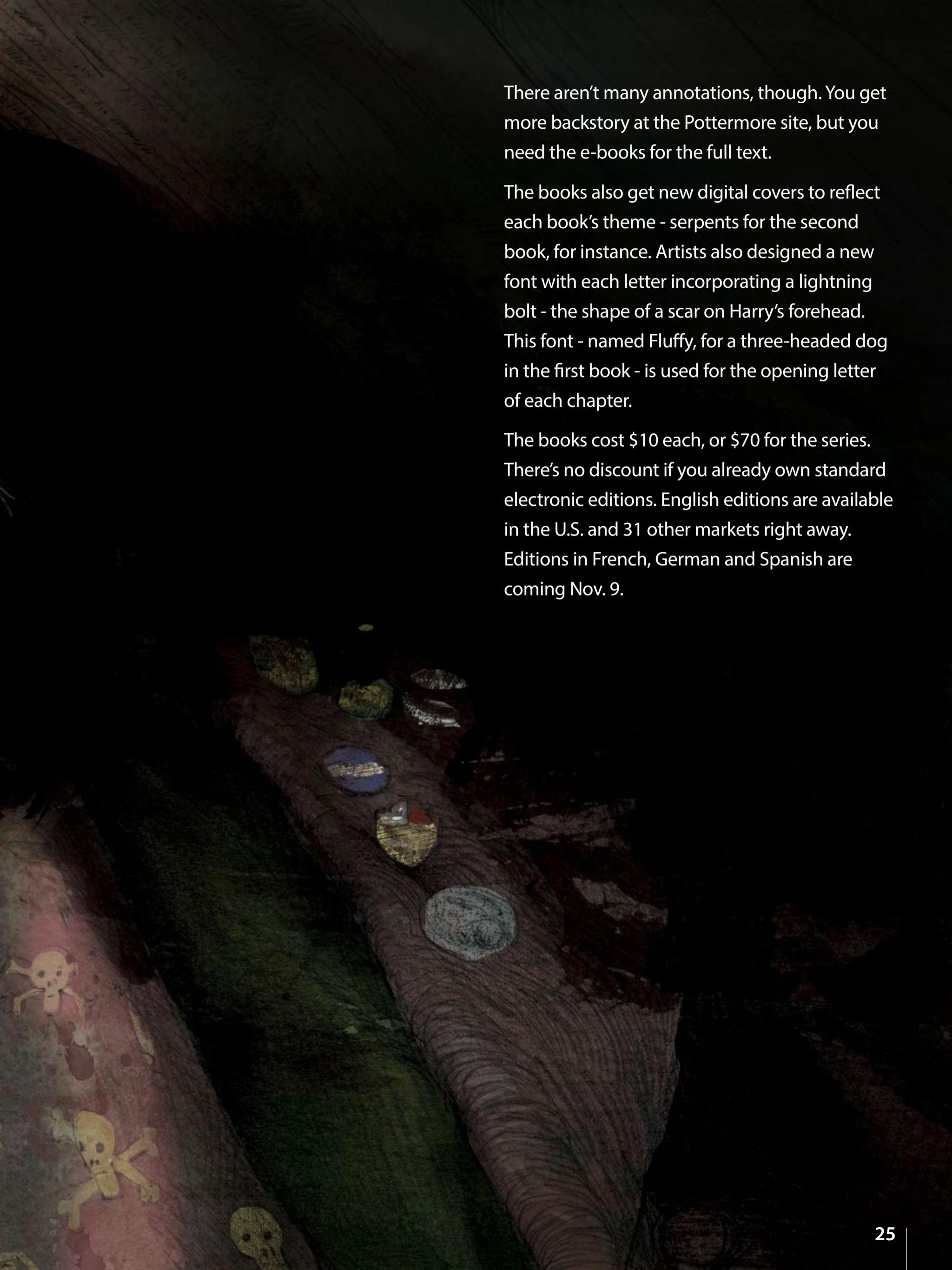
There's no sound, though. When Harry's friend, Ron, gets an angry audio letter from his mother, you see steam coming out, but you don't hear her screaming, as you do in the movie.

You can access Rowling's supplemental materials by tapping a quill icon embedded in the text. For instance, you learn how students arrived at Hogwarts before train service began: Some rode on broomsticks, but that was tough with trunks and pets to bring along.









There aren't many annotations, though. You get more backstory at the Pottermore site, but you need the e-books for the full text.

The books also get new digital covers to reflect each book's theme - serpents for the second book, for instance. Artists also designed a new font with each letter incorporating a lightning bolt - the shape of a scar on Harry's forehead. This font - named Fluffy, for a three-headed dog in the first book - is used for the opening letter of each chapter.

The books cost \$10 each, or \$70 for the series. There's no discount if you already own standard electronic editions. English editions are available in the U.S. and 31 other markets right away. Editions in French, German and Spanish are coming Nov. 9.

# APPLE ADDS RETINA DISPLAYS TO ITS iMACS

Apple is adding Retina displays to its iMacs, which will enhance the text and the image quality of photos and videos.

The Cupertino, California-based company said its 21.5-inch iMac will have a Retina 4K display, while every 27-inch iMac will have a Retina 5K display. The 21-inch iMac, which starts at \$1,099, and 27-inch iMac, which starts at \$1,799, are available in three models and come standard with a new Magic Keyboard and Magic Mouse 2.





The technology giant redesigned Magic devices including the Magic keyboard, Magic Mouse 2 and Magic Trackpad 2. Those products have rechargeable batteries. The new trackpad marks the first time Apple has made its Force Touch Trackpad feature available for a desktop. Force Touch allows users access to several shortcuts by touching the trackpad in different ways.

Apple said the iMacs will also have new storage options and more powerful processors and graphics.

Apple first introduced the iMac in 1998 as its primary desktop computer offering and revamped it many times since. In recent years Apple has focused on faster growing products such as the iPhone, which account for about half of Apple's sales, iPads and laptops as sales of traditional desktop PCs slump.

Apple Inc.'s stock rose 48 cents to \$112.09 in morning trading Tuesday. Its shares have risen almost 2 percent so far this year.





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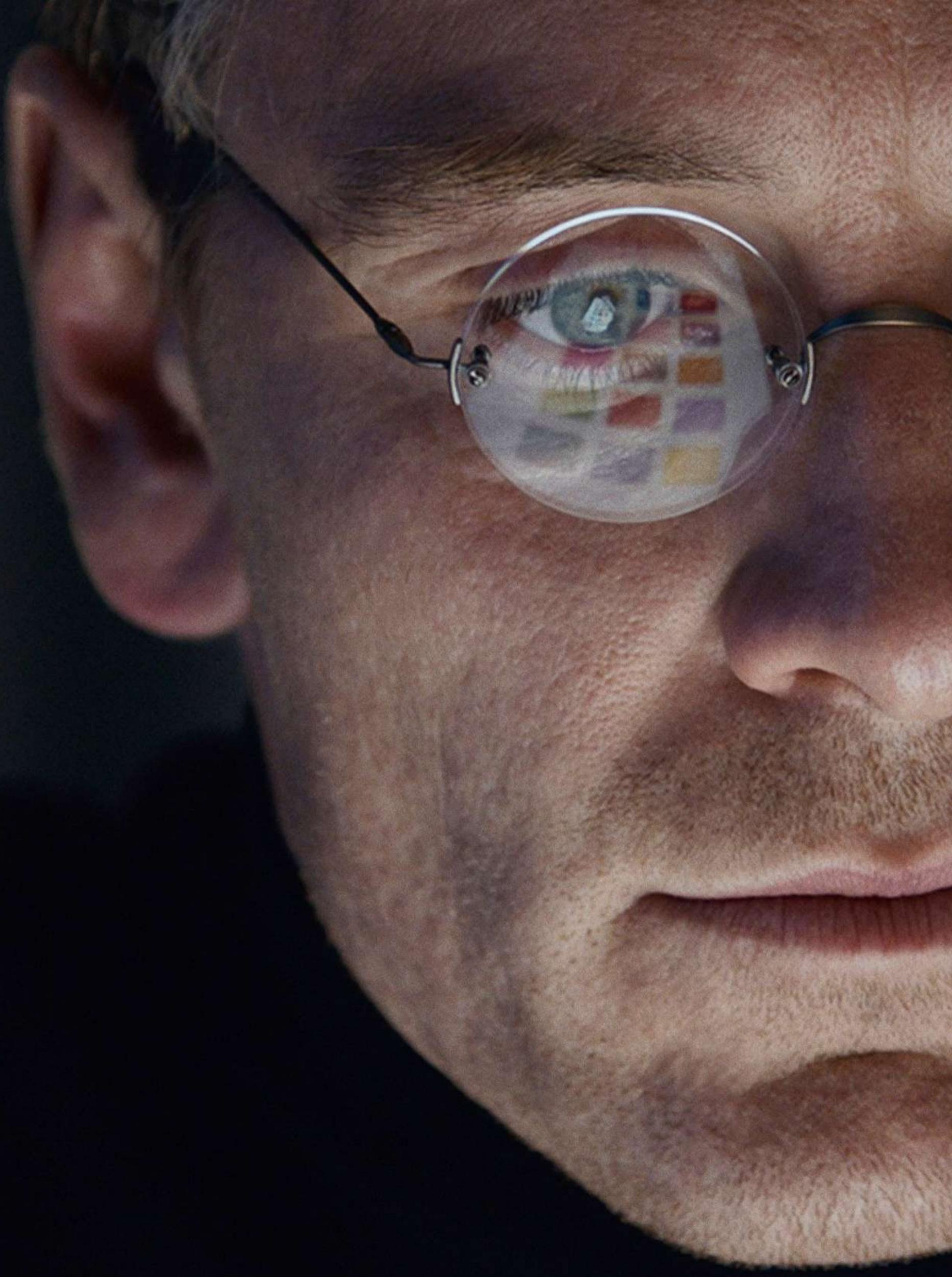
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# Hero or villain? Steve Jobs remembered

New movie recalls influential  
Apple co-founder







For anyone who closely follows Apple, it will have been difficult to avoid the considerable publicity around the new film *Steve Jobs*, the most eagerly anticipated biopic of the Apple co-founder yet. However, excitement and praise for the movie has been far from unanimous, with many people who knew Jobs - including current Apple employees - taking issue with its supposed inaccuracies. Here, we look closer at how the movie has reopened old debates about the tech visionary.

## IT ALL STARTED WITH JUST ONE BOOK...

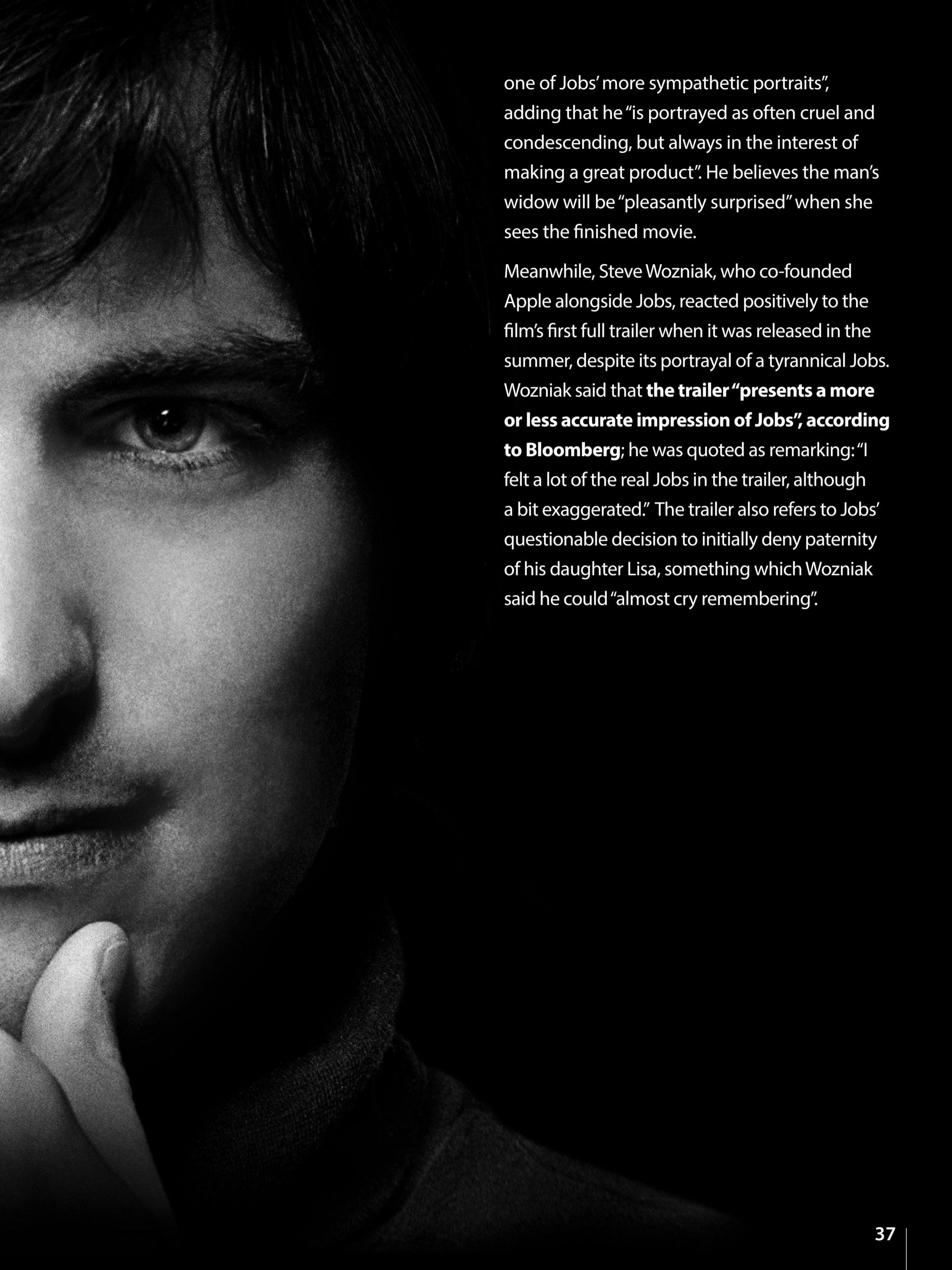
It is not immediately obvious why the new movie should attract much ire from friends and relatives of Jobs. The script, penned by the Oscar-winning screenwriter Aaron Sorkin, is adapted from Walter Isaacson's biography *Steve Jobs* - **which Jobs himself had invited Isaacson to write**. Furthermore, Jobs' wife, Laurene Powell Jobs, urged Isaacson to not "whitewash", but tell her husband's story "truthfully".

However, the book, which was published just after its subject's death in 2011, was met with attacks from current Apple CEO Tim Cook, who insisted it was "a tremendous disservice" to his predecessor, and Apple's Senior Design Officer Jony Ive, who succinctly said: "My contempt couldn't be lower." With the release of the new film, directed by Danny Boyle of *Slumdog Millionaire* fame and starring Michael Fassbender, an array of people who knew Jobs have joined Cook and Ive in speaking out once again.

## **"... ANY MOVIE BASED ON THE BOOK COULD NOT POSSIBLY BE ACCURATE."**

Jobs' widow apparently objected to the movie even during its production. According to someone who spoke to The Hollywood Reporter, but was identified only as "another of the picture's key players", Laurene Jobs **had tried to "kill" the film by trying to dissuade Leonardo DiCaprio and Christian Bale, both previously linked with the lead role, not to join the project.** And Steve Jobs producer Scott Rudin has revealed to The Wall Street Journal that she told him "**how much she disliked the book, and that any movie based on the book could not possibly be accurate.**"

However, does she really have much reason to be concerned? Fortune's Philip Elmer-DeWitt has opined that the movie actually "presents



one of Jobs' more sympathetic portraits", adding that he "is portrayed as often cruel and condescending, but always in the interest of making a great product". He believes the man's widow will be "pleasantly surprised" when she sees the finished movie.

Meanwhile, Steve Wozniak, who co-founded Apple alongside Jobs, reacted positively to the film's first full trailer when it was released in the summer, despite its portrayal of a tyrannical Jobs. Wozniak said that **the trailer "presents a more or less accurate impression of Jobs", according to Bloomberg**; he was quoted as remarking: "I felt a lot of the real Jobs in the trailer, although a bit exaggerated." The trailer also refers to Jobs' questionable decision to initially deny paternity of his daughter Lisa, something which Wozniak said he could "almost cry remembering".

## JUST HOW CRITICAL OF JOBS IS THE FINAL PRODUCT?

To what extent the finished film's portrayal of Jobs is complimentary is ultimately a subjective judgment, and many casual cinemagoers won't get a decent chance to judge for themselves before the nationwide US release on October 23. This leaves us to turn mainly to the critics.

In its early review, The Guardian **called the movie "admirably unsentimental in its portrayal of Jobs"**, but despaired that his "careless behavior towards his ex and daughter is seemingly justified by his genius", while the final scenes give the impression that "Boyle and Sorkin were tempted to show him crossing through the gates of heaven". By contrast, in its own review, The New York Times reports that the film "**basically upholds the book's account ... of Jobs' temperament, his foibles and his talent.**"

## MEMORIES OF "AN AMAZING HUMAN BEING"

There is clear controversy elsewhere about the depiction. During the interview with Tim Cook on The Late Show with Stephen Colbert last month, the host called the portrayal "unflattering" - leading Cook to **defend Jobs by calling him "an amazing human being"**. He further described his "uncanny ability to see around the corner and describe the future – not an evolutionary future but a revolutionary future". Cook added that, unlike the confrontational figure in the film, Jobs was "a joy to work with".

Cook did, however, admit that he had not seen the movie - as did Jony Ive when **asked for**

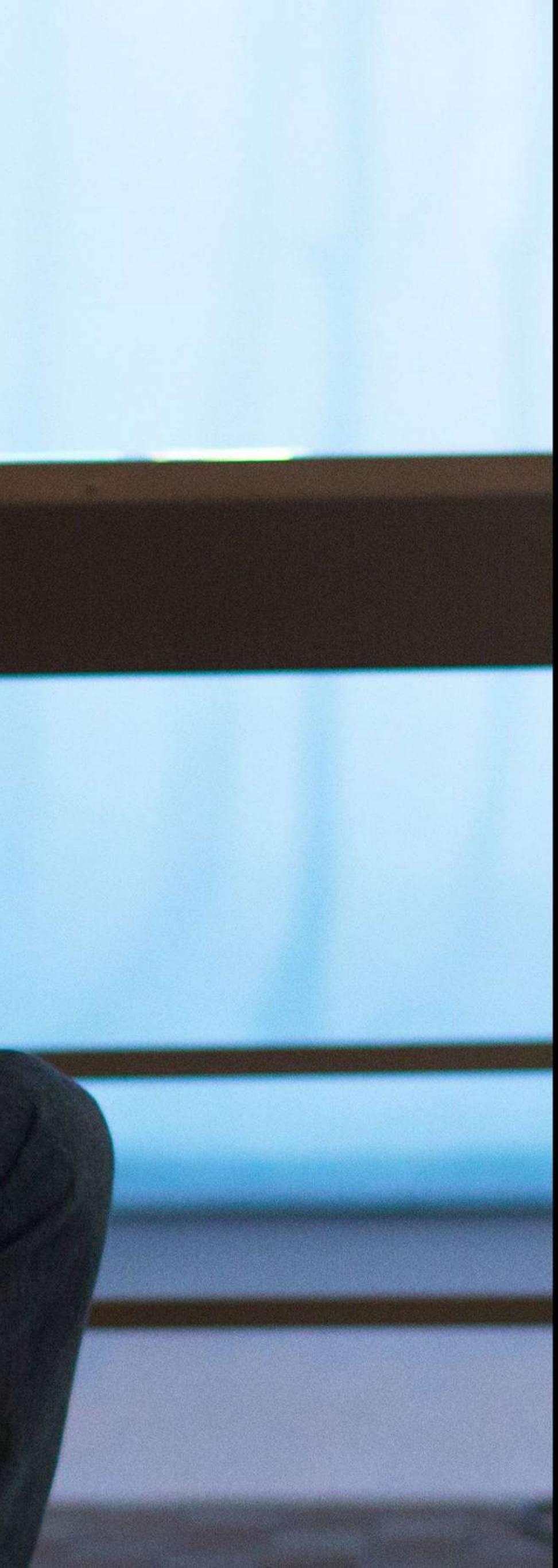












**his own opinion of it at Vanity Fair's New Establishment Summit earlier this month.** He talked about his former boss's "very simple focus on trying to make something beautiful and great", remarking: "I don't think I've ever seen anyone so happy as I saw him—this very simple kind of joy—when he would realize, "This is actually working out. This could be great." It was just the simplicity of that."

Nonetheless, Ive occasionally implicitly referred to the film's supposedly critical portrayal of his late friend - observing, for example, that his memory of the man "stands in such contrast, obviously, to how he's being frequently and popularly portrayed at the moment. The lack of agenda." He also described his "primal fear" that "how you are defined and how you are portrayed can be hijacked by people with agendas that are very different from your close family and your friends."

### **ANECDOTES ABOUT JOBS THE BUSINESSMAN, JOBS THE MAN**

If the Jobs that Fassbender plays genuinely isn't the real Jobs, we certainly got a lot more hints of his true nature earlier this month, when various prominent Apple staffers honored him on the fourth anniversary of his death. The Telegraph reported that, **in an email to his staff, Cook said that Jobs** "loved his family above all, he loved Apple, and he loved the people with whom he worked so closely and achieved so much."

Cook added that he could still see his legacy "all around us", describing it largely as: "An incredible team that embodies his spirit





of innovation and creativity. The greatest products on earth, beloved by customers and empowering hundreds of millions of people around the world." In **further commentary on Apple's internal intranet site**, Cook touched upon Jobs' "small acts of friendship", even recalling his attempts at matchmaking. "He wasn't content that I loved my job. He wanted more for me."

Eddy Cue, Apple's Senior Vice President of Internet Software and Services, added to the intranet anecdotes, remembering how Jobs had assisted both when his daughter was born three months prematurely and when his wife was having treatment for cancer. Phil Schiller, the company's Senior Vice President of Worldwide Marketing, focused on the incredible preparation Jobs would undergo for each of dozens of his keynote presentations, claiming that he worked "harder than people could imagine".

## STEVE JOBS: AN ETERNAL ENIGMA?

All things considered, perhaps what is today clearest about Jobs is just how much is actually unclear about the man. Evidence abounds that he was a thoroughly complex character that no cinematic venture, even the critically acclaimed latest one, has succeeded in accurately portraying. Former Apple CEO John Sculley has insisted: "**If one tries to come away with a complete picture of who was Steve Jobs, they wouldn't get it from this movie**". They probably wouldn't get it from anywhere else, either. ■

by Benjamin Kerry & Gavin Lenaghan





# HIGH-TECH FIRM'S PLANS TO MAKE DRONES IN NY SPARK QUESTIONS

A plan to manufacture solar-powered drones at a suburban New York site that once made fighter jets for the U.S. military is sparking questions about whether the aircraft will be used to beam Internet service. So far, company officials are staying mum.

Daniel Preston, the CEO and chief technology officer of Luminati Aerospace LLC., appeared Thursday with other company officials at a meeting of town board members in Riverhead, seeking permission for Luminati to use one of two runways on property it recently purchased. The land was once used by defense contractor Northrop Grumman to test fighter jets.





Welcome to  
**SKYDIVE**  
**LONG ISLAND**

Preston said the company, which closed last month on a \$3.4 million deal to acquire 16.3 acres of land from the operator of a now-closed skydiving facility, intends to develop the next generation of drones at the site. Initially, the company intends to immediately hire about 40 employees for high-tech positions, but described its long-term goals as “multimillion-dollar in nature.”

This summer, Facebook announced it will begin test flights later this year for a solar-powered drone to deliver Internet connectivity to remote parts of the world, but Preston would not comment on whether his firm is associated with that or any other tech company.

“I have to respect the confidential nature of this program and of our client,” he told reporters after meeting with town officials.

“There’s a confidential proprietary aspect to what we’re developing and we’re trying to be respectful of that.”



Facebook engineers have said they've designed a drone with a 140-foot wingspan that weighs less than 1,000 pounds. Designed to fly at high altitudes for up to three months, it will use lasers to send Internet signals to stations on the ground.

Other tech companies have launched similar initiatives. Google is experimenting with high-altitude balloons as well as drones and satellites. Microsoft has funded a project that will transmit Internet signals over unused television airwaves.

Neither Facebook nor Google immediately commented.

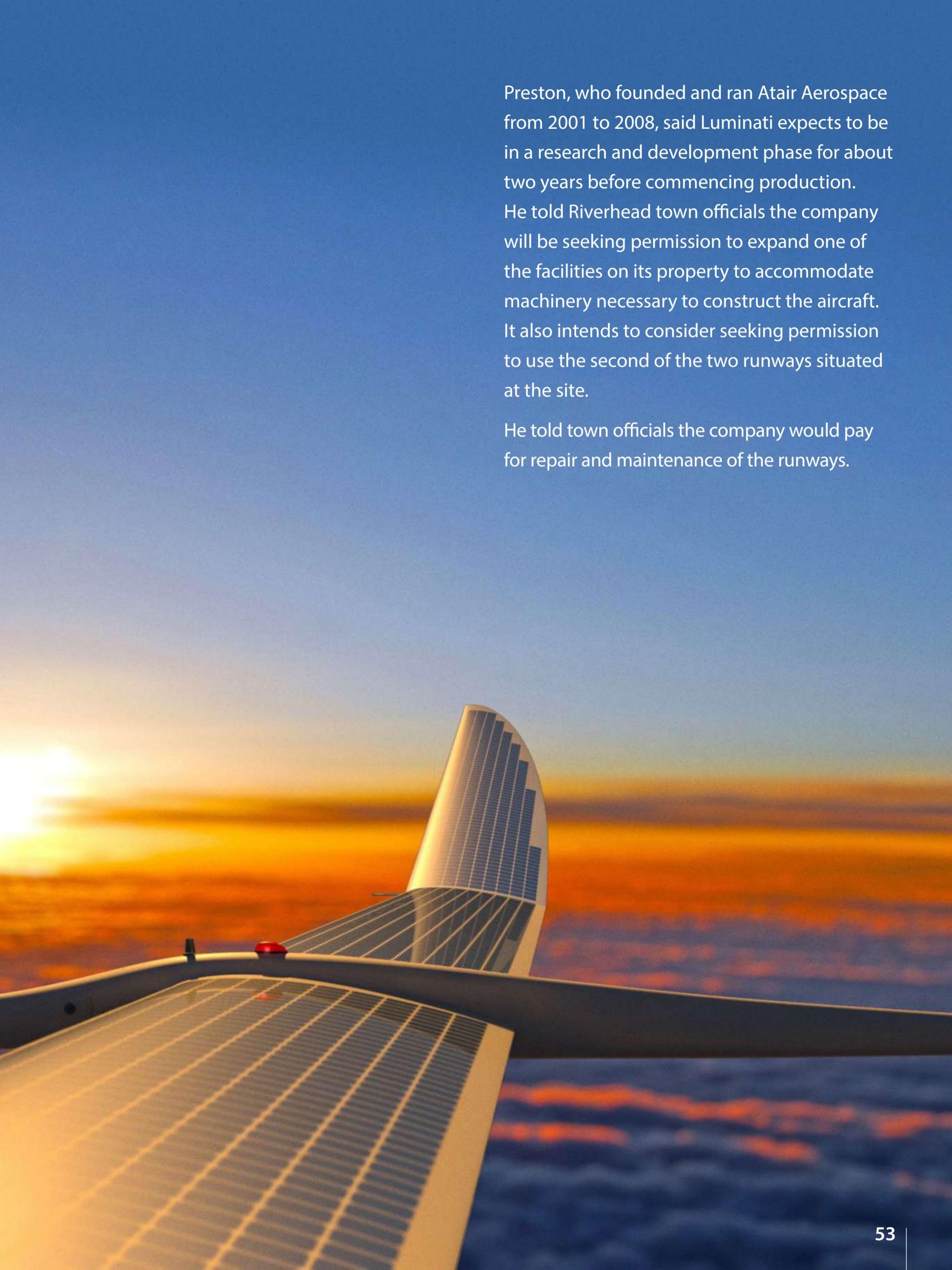
Sean Walter, the Riverhead town supervisor, called the Luminati project "the biggest thing to hit Long Island in a long, long time." He said he has been told the aircraft would fly at altitudes of 60,000 feet or more and have a wingspan of about 160 feet.



The Facebook drones are designed to climb to 90,000 feet, safely above commercial airliners and thunderstorms, and they will fly in circles through the day. At night, he said, they will settle to about 60,000 feet to conserve battery power.

"What's really exciting is we are bringing the aerospace industry back to Long Island," Walter said. He noted that Grumman, the predecessor of Northrop Grumman, designed and built fighter jets for the U.S. military at several sites on Long Island. Grumman's plant in Bethpage built the lunar module that carried men to the moon in 1969.





Preston, who founded and ran Atair Aerospace from 2001 to 2008, said Luminati expects to be in a research and development phase for about two years before commencing production. He told Riverhead town officials the company will be seeking permission to expand one of the facilities on its property to accommodate machinery necessary to construct the aircraft. It also intends to consider seeking permission to use the second of the two runways situated at the site.

He told town officials the company would pay for repair and maintenance of the runways.



# GREEK TOWN GLIMPSES MASS TRANSIT FUTURE: DRIVERLESS BUSES



There'll be no arguing with the driver on this bus: the rides are free and there's no driver anyway.

Trikala, a rural town in northern Greece, has been chosen to test a driverless bus in real traffic conditions for the first time, part of a European project to revolutionize mass transport and wean its cities off oil dependency over the next 30 years.

Trials of the French-built CityMobil2 buses started last week and will last through late February.

Over the past year, CityMobil2 has been tried out near its base in La Rochelle in western France, on a campus in Lausanne, Switzerland, and near Helsinki, Finland, all in controlled conditions that produced no accidents.





But in Greece, a country of narrow, winding, hilly streets, stray dogs, bicycle riders and impatient drivers, the buses are up against real traffic.

The Greek government had to amend its laws to allow the testing and the city had to build a dedicated bus lane that deprived residents of downtown parking spaces.

The robot buses don't look like science fiction vehicles - more like golf cart meets ice-cream truck. Still, heads turn as the skinny, battery-powered buses hum through the streets. They seat only 10 people and are guided by GPS and supplementary sensors, including lasers and cameras, that send live data to a control center.

The buses go no faster than 20 kph (12 1/2 mph), but the trials in Trikala (pronounced TREE-kah-lah) potentially represent a major advance for automated transport.

"There were cities bidding for this project all over Europe. They offered relatively restricted urban areas. But we said we could make it happen in a downtown environment and we won," said Odisseas Raptis, who heads the city's digital project department, e-Trikala. "We have a 2.4-kilometer (1.5-mile) route, the bus route. It's mixed with traffic, with pedestrians, with bicycles, with cars ... That hasn't been done before."

Vasilis Karavidas, chief technician for the project in Greece, trained with Robosoft, the company that developed the bus, in the southwest French town of Bidart.

Although the driverless buses are fully automated with onboard navigation and obstacle detection systems, each vehicle will be monitored by a driver in the control center who can override the system, Karavidas said.



Image: Thanassis Stavrakis



"It's as if they are in here and they can stop the bus if they want to, if something goes wrong," he said.

The buses are currently running without passengers, with full testing to start later this month when a fiber-optic network allowing faster data transmission is completed. Six battery-powered vehicles will eventually be used in this farming town of 80,000 that has become hooked on high-tech.

Trikala already has already tested EU-funded pilot medical programs, including schemes to relay heart test data from home to the doctor's office and use tracker devices for Alzheimer patients. In the center of the city, a "digital tree" with solar panels allows benches to carry phone-charging outlets.

The 28-nation European Union is targeting gasoline use for city transport as one area where it wants to reduce carbon emissions. With oil prices and city populations expected to rise in the coming decades, a major shift to battery power and more shared transport could blur the line between private and public vehicles.

Senior transport analyst Philippe Crist at the International Transport Forum, an OECD think-tank based in Paris, says transport trends are hard to predict as the world moves more toward automation.

"We too often look at technological changes in isolation," said Crist. "There is a good chance that these technologies will create entirely new uses that we can only poorly grasp today. The reality is that everything is changing around these technologies and it is plausible that society may lose interest in owning cars or using fixed-service public transport - especially if these technologies allow better alternatives to emerge."

Models run by the think tank suggest that city transport could be made massively more efficient.

Crist said researchers looked at "shared and route-optimized on-call taxi-like services replacing all car and bus trips in a mid-sized European city. We found that these systems could deliver almost the same mobility as today but with 95 percent fewer vehicles."

Driverless cars and buses offer an easier way to optimize traffic flow while aiming to eliminate human error. That has transport developers working at both ends: adding automatic features to conventional vehicles while raising the bar for those that will have no driver at all.





Image: Thanassis Stavrakis



Image: Thanassis Stavrakis

So far, the CityMobile2 has had mixed reviews on the streets of Trikala. Not everyone is happy to lose parking spots or replace human jobs with machines. Still, retiree Michalis Pantelis said he was proud that his city was selected for the testing.

"I think it's wonderful. Think how many people will come to Trikala to see this. It's new and innovative," he said, moments after a driverless bus passed by. "It reminds me of the toy cars my grandchildren play with."

**Online:** EU Roadmap to Single European Transport Area <http://goo.gl/wnSdE2>



# NEW CALIFORNIA LAW EXTENDS PRIVACY RIGHTS TO ELECTRONIC DATA



California will require police to get a court order before they can search messages, photos and other digital data stored on phones or company servers in the nation's most-populous state.

Civil-liberties advocates called the new law that takes effect Jan. 1 an important advance and said it highlights the need for similar protections at the national level.

The California Electronic Communications Privacy Act was signed by Gov. Jerry Brown on Thursday. It's only the third of its kind in the U.S.

Image: Max Whittaker





Image: Nick Ut



While some states guarantee some of its protections, only Maine and Utah previously had comprehensive laws on the books, noted Hanni Fakhoury, senior staff attorney for the Electronic Frontier Foundation.

"It's an expansive bill and this being California, it covers a lot of people," Fakhoury said of the state with a population of about 39 million. "It's an important thing and a good development."

The digital rights group, along with the American Civil Liberties Union, news organizations and tech companies, worked for the bill's passage. They argued that previous California law dating back to the 1980s was in desperate need of an update given the dramatic changes in the digital world.

But the bill's opponents, including several California police groups, argued that the measure would hamper the ability of law enforcement to investigate child pornographers and others who commit crimes online.

"Privacy is of the utmost importance in the digital age, and while I strongly support an individual's right to privacy, it should not be protected at the expense of our children," said Assemblyman Jim Cooper, D-Elk Grove.

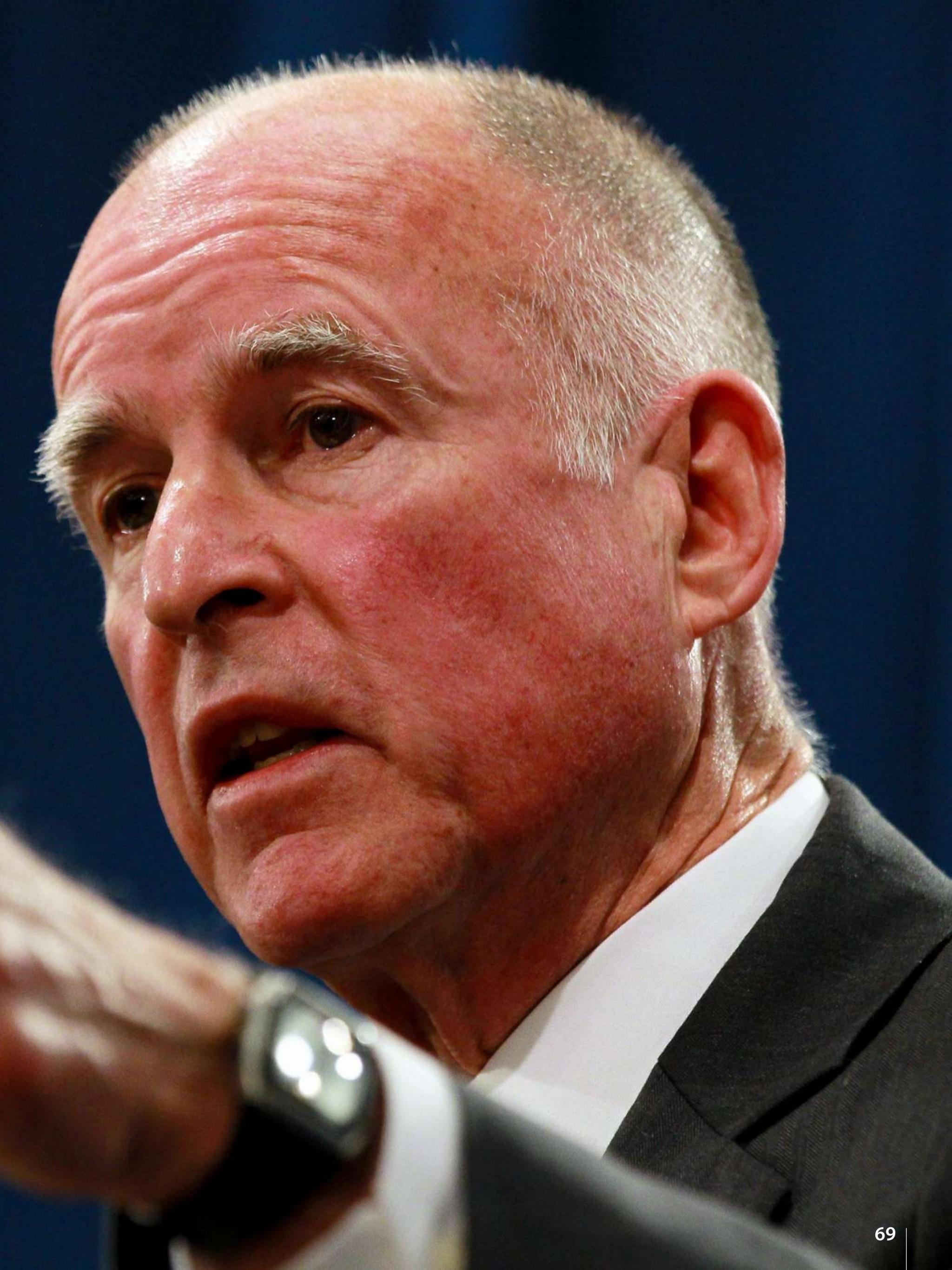
Law-enforcement requests for people's electronic information, particularly from technology companies such as Google and Twitter, have skyrocketed in recent years, said Nicole Ozer, technology and civil liberties policy director for the ACLU of California.

Previously, all that was generally needed to get the information was a subpoena. Now, under the new law, a warrant will be required in most cases.

"It really is a true update of privacy law for the digital world, making sure that sensitive information about who we are, and where we go, and what we do, and who we know is protected from government intrusion," Ozer said.

She added that "hopefully this will send an important message to Congress to make sure all that all Americans have these important, updated privacy protections."

Advocates have tried to pass legislation at the national level for years without any success. The Email Privacy Act, a proposed update to the Electronic Communications Privacy Act, has 300 sponsors in the U.S. House of Representatives, but its future remains unclear.



# TOP Free Apps

iOS



## #01 – The Walking Dead: No Man's Land

By Next Games Oy

Category: Games

Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch



## #02 – Facebook Messenger

By Facebook, Inc.

Category: Social Networking

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #03 – Facebook

By Facebook, Inc.

Category: Social Networking

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #04 – Smashy Road: Wanted

By Remco Kortenoever

Category: Games

Requires iOS 5.1.1 or later. Compatible with iPhone, iPad, and iPod touch.



## #05 – Instagram

By Instagram, Inc.

Category: Photo & Video

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #06 – Netflix

By Netflix, Inc.

Category: Entertainment

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #07 – Snapchat

By Snapchat, Inc.

Category: Photo & Video

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #08 – YouTube

By Google, Inc.

Category: Photo & Video

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #09 – iTunes U

By Apple

Category: Education

Requires iOS 8.3 or later. Compatible with iPhone, iPad, and iPod touch.



## #10 – Pandora - Free Music & Radio

By Pandora Media, Inc.

Category: Music

Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch.

This app is optimized for iPhone 5, iPhone 6, and iPhone 6 Plus.

# TOP Free Apps



## #01 – OS X El Capitan

By Apple  
Category: Utilities  
Compatibility: OS X 10.6.8 or later



## #02 – App for Instagram

By Joacim Ståhl  
Category: Social Networking  
Compatibility: OS X 10.7 or later, 64-bit processor



## #03 – Xcode

By Apple  
Category: Developer Tools  
Compatibility: OS X 10.8.4 or later



## #04 – Kindle

By AMZN Mobile LLC  
Category: Reference  
Compatibility: OS X 10.8 or later



## #05 – Microsoft Remote Desktop

By Microsoft Corporation  
Category: Business  
Compatibility: OS X 10.7 or later, 64-bit processor



## #06 – ooVoo Video Call, Text and Voice

By ooVoo LLC  
Category: Social Networking  
Compatibility: OS X 10.7 or later, 64-bit processor



## #07 – The Unarchiver

By Dag Agren  
Category: Utilities  
Compatibility: OS X 10.6.0 or later, 64-bit processor



## #08 – Full Deck Solitaire

By GRL Games  
Category: Games  
Compatibility: OS X 10.6.6 or later



## #09 – Microsoft OneNote

By Microsoft Corporation  
Category: Productivity  
Compatibility: OS X 10.10 or later



## #10 – Evernote

By Evernote  
Category: Productivity  
Compatibility: OS X 10.7.5 or later, 64-bit processor



Mac OS X

# TOP Paid Apps

iOS



## #01 – Minecraft – Pocket Edition

By Mojang

Category: Games / Price: \$6.99

Requires iOS 5.1.1 or later. Compatible with iPhone, iPad, and iPod touch.



## #02 – PAUSE - Relaxation at your fingertip

By ustwo™

Category: Health & Fitness / Price: \$1.99

Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #03 – Plague Inc.

By Ndemic Creations

Category: Games / Price: \$0.99

Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #04 – Geometry Dash

By RobTop Games AB

Category: Games / Price: \$1.99

Requires iOS 5.1.1 or later. Compatible with iPhone, iPad, and iPod touch.



## #05 – Heads Up!

By Warner Bros.

Category: Games / Price: \$0.99

Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #06 – Scribblenauts Remix

By Warner Bros.

Category: Games / Price: \$0.99

Requires iOS 5.1.1 or later. Compatible with iPhone, iPad, and iPod touch.



## #07 – New Emoji - Extra Emoji Stickers

By Emoji Apps GmbH

Category: Utilities / Price: \$1.99

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #08 – Facetune

By Lightricks Ltd.

Category: Photo & Video / Price: \$3.99

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #09 – PewDiePie: Legend of the Brofist

By Outerminds Inc.

Category: Games / Price: \$4.99

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.



## #10 – Afterlight

By Afterlight Collective, Inc

Category: Photo & Video / Price: \$0.99

Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch.



# TOP Paid Apps

## #01 – GarageBand

By Apple  
Category: Music / Price: \$4.99  
Compatibility: OS X 10.9 or later



## #02 – iPulse

By The Iconfactory  
Category: Utilities / Price: \$9.99  
Compatibility: OS X 10.6.6 or later, 64-bit processor



## #03 – 1Password

By AgileBits Inc.  
Category: Productivity / Price: \$29.99  
Compatibility: OS X 10.10 or later, 64-bit processor



## #04 – Logic Pro X

By Apple  
Category: Music / Price: \$199.99  
Compatibility: OS X 10.8.4 or later, 64-bit processor



## #05 – Duplicate Photos Fixer Pro

By Systweak Software  
Category: Photography / Price: \$0.99  
Compatibility: OS X 10.7 or later



## #06 – Disk Doctor

By FIPLAB Ltd  
Category: Utilities / Price: \$2.99  
Compatibility: OS X 10.7.3 or later, 64-bit processor



## #07 – Document Writer

By xiong feng  
Category: Business / Price: \$9.99  
Compatibility: OS X 10.7 or later



## #08 – Final Cut Pro

By Apple  
Category: Video / Price: \$299.99  
Compatibility: OS X 10.10.4 or later, 64-bit processor



## #09 – AntiVirus Sentinel Pro

By Calin Popescu  
Category: Utilities / Price: \$9.99  
Compatibility: OS X 10.7 or later, 64-bit processor



## #10 – BetterSnapTool

By Andreas Hegenberg  
Category: Productivity / Price: \$1.99  
Compatibility: OS X 10.6 or later, 64-bit processor

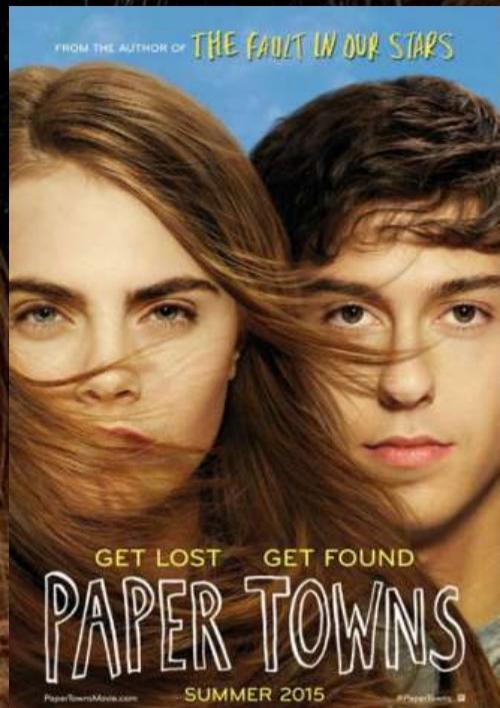


Mac OS X

# iTunes Review

Movies  
& TV Shows

Rotten Tomatoes  
 55%



iTunes Preview



by Jake Schreier  
Genre: Drama  
Released: 2015  
Price: \$14.99

★★★★★  
159 Ratings



Trailer

# Paper Towns

All of his life, Quentin (Nat Wolff) has had a crush on his neighbor Margo (Cara Delevingne). However, after the two have an all-night adventure together around their hometown, Margo promptly disappears. She leaves behind a number of clues as to her whereabouts, leading Quentin and his friends to endeavor to decipher them and find Margo.

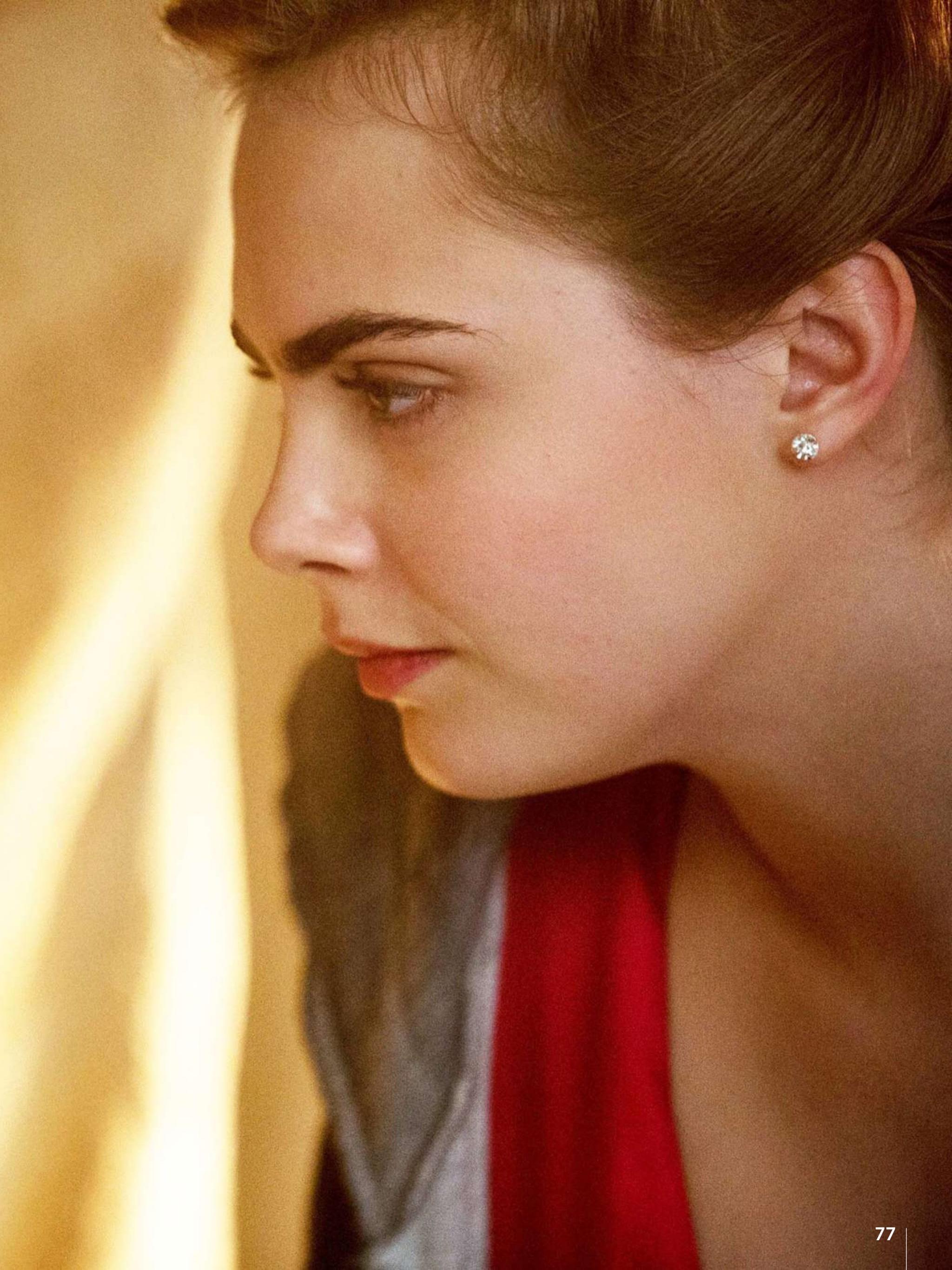
## FIVE FACTS:

1. This film is based on John Green's young adult mystery novel of the same name.
2. The younger, child versions of Quentin and Margo are played by, respectively, Josiah Cerio and Hannah Alligood.
3. Green himself **wrote the first draft of the screenplay.**
4. North Carolina, rather than the novel's setting of Orlando, Florida, **was chosen for filming due to tax incentives, according to Green.**
5. The movie has attracted mixed reviews; the critics' consensus on reviews aggregator website Rotten Tomatoes reads: "Paper Towns isn't as deep or moving as it wants to be, yet it's still earnest, well-acted, and thoughtful enough to earn a place in the hearts of teen filmgoers of all ages."

See more in  
iTunes



*Cara Delevingne and Nat Wolff Interview*

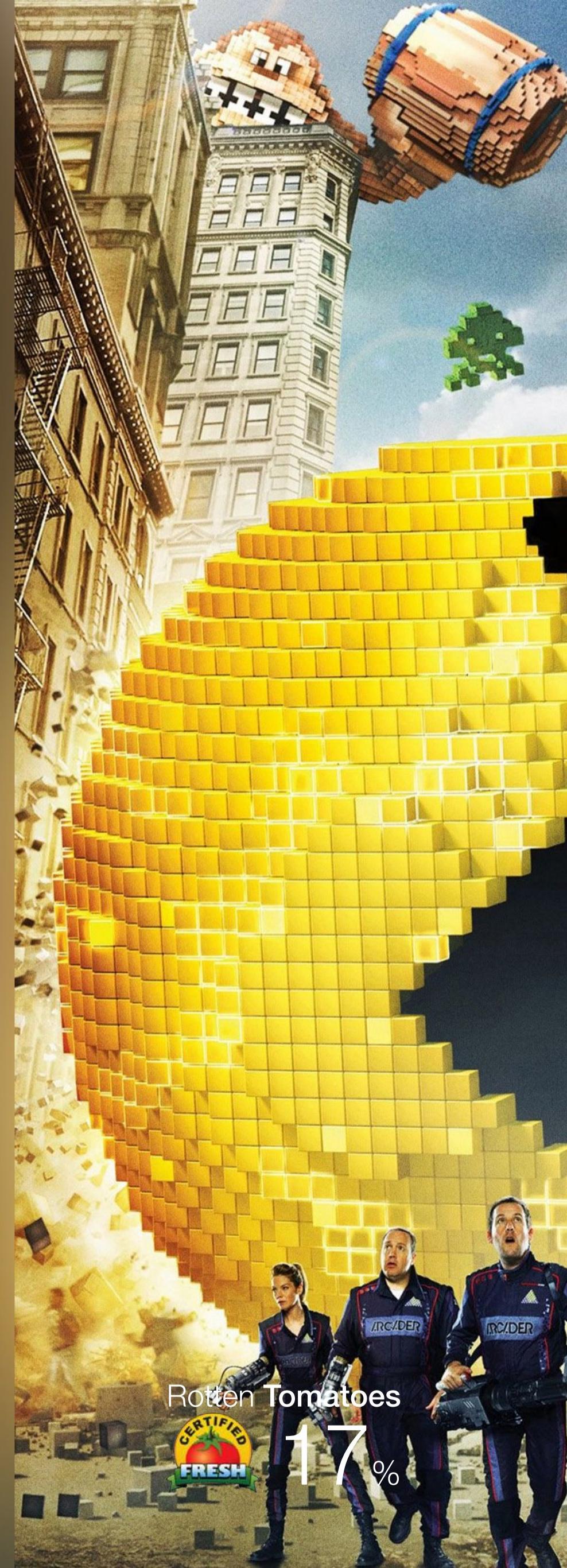


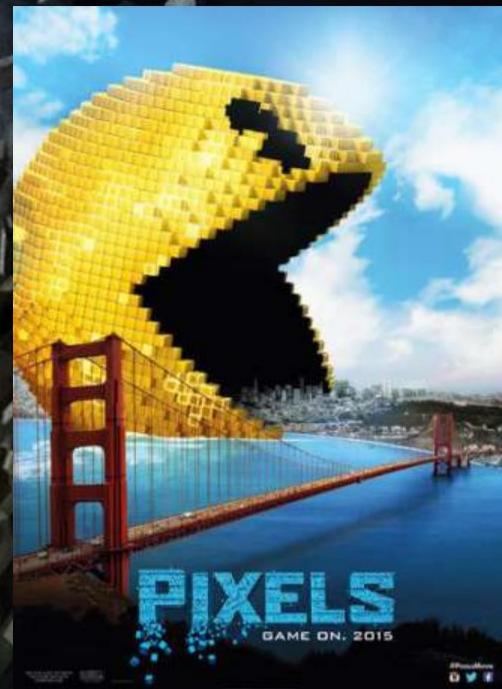
# Pixels

After coming across video feeds of 1980s arcade games and misinterpreting them as Earth declaring war, aliens take the visual form of game characters, including Donkey Kong and Pac-Man, to attack the planet. This leads US President Will Cooper (Kevin James) to turn to his old school friends and veteran gamers Sam (Adam Sandler), Ludlow (Josh Gad) and Eddie (Peter Dinklage) to fight the invaders.

## FIVE FACTS:

1. This movie is **based on director Patrick Jean's 2010 short film also called Pixels.**
2. The previous work of director Chris Columbus includes the first two Home Alone movies, Mrs. Doubtfire and the first two Harry Potter movies.
3. Also among the leading cast of Pixels are Michelle Monaghan, Brian Cox, Ashley Benson and Jane Krakowski.
4. The movie has attracted overwhelmingly poor reviews. The critics' consensus on Rotten Tomatoes reads: "Much like the worst arcade games from the era that inspired it, Pixels has little replay value and is hardly worth a quarter."
5. Still, despite the negative critical reception, Pixels has **grossed over \$236.4 million worldwide as of October 8, 2015.**





iTunes Preview

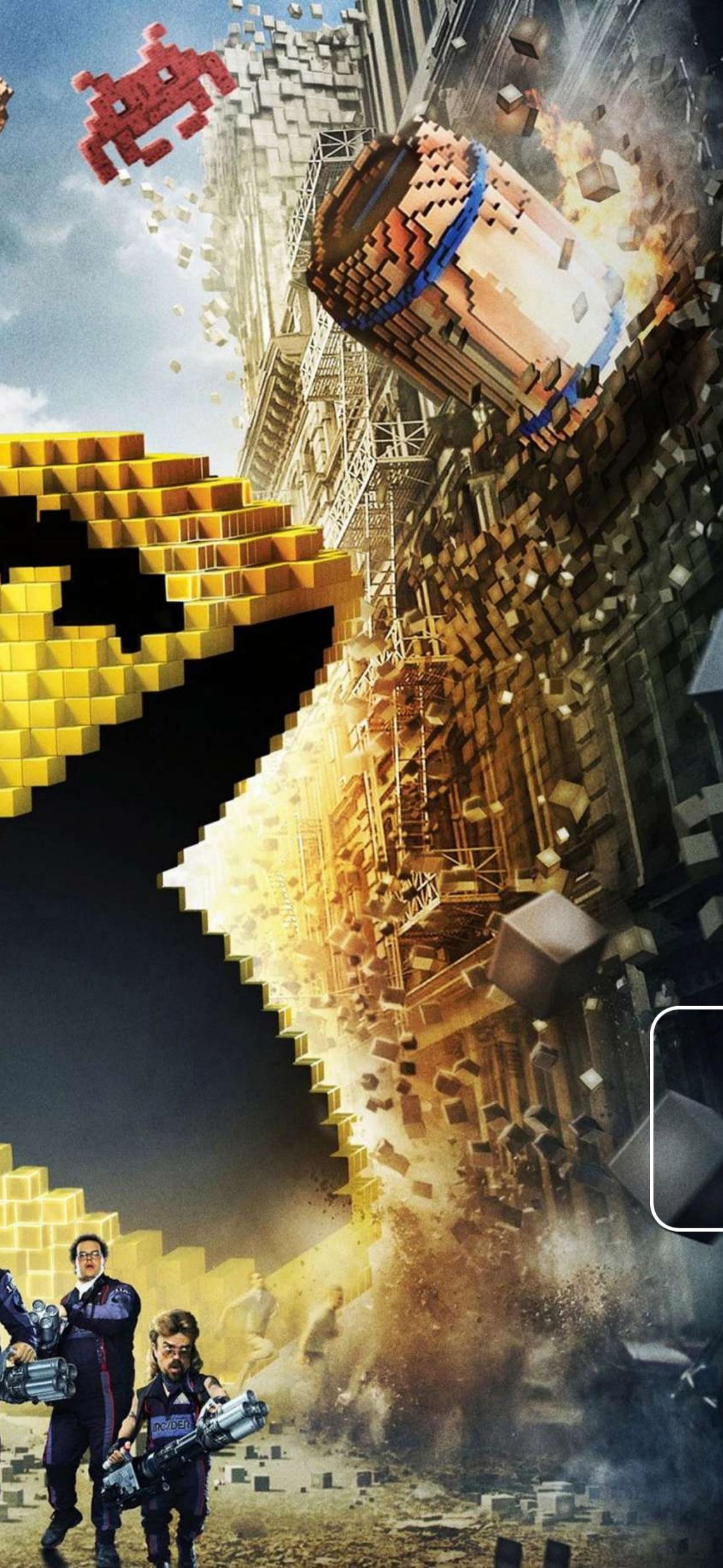


by Chris Columbus  
Genre: Action & Adventure  
Released: 2015  
Price: \$14.99

★★★★★  
385 Ratings



Trailer





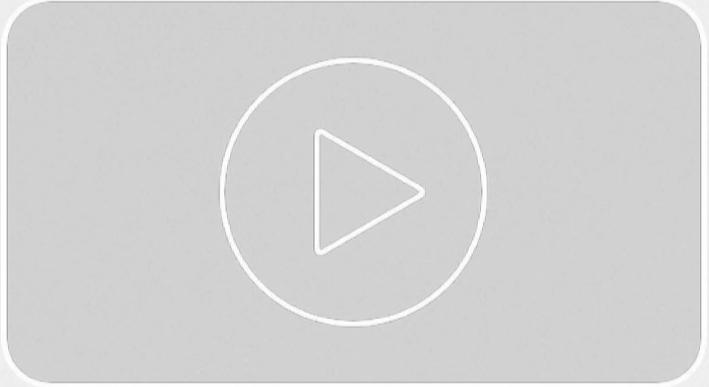


Peter Dinklage Interview



# iTunes

## Review



*Good For You*

# Music



iTunes Preview



Genre: Pop

Released: Oct 09, 2015

14 Songs

Price: \$11.99



3249 Ratings

# Revival (Deluxe)

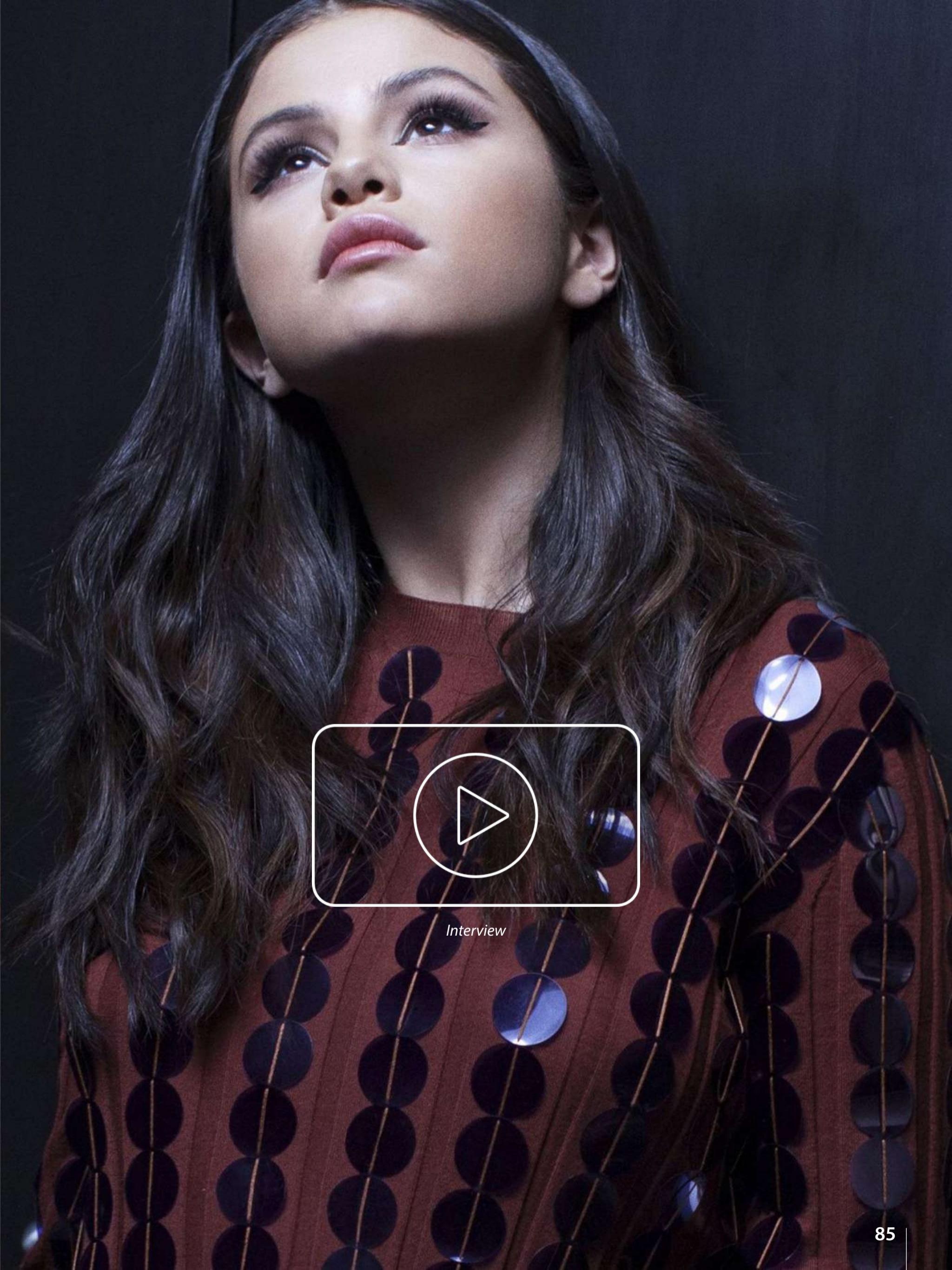
## Selena Gomez

Revival is former Disney Channel regular Selena Gomez's second solo studio album, following Stars Dance in 2013. Described as combining pop and electronic dance music, the new album is Gomez's first released through the labels Interscope and Polydor Records - and the lead single, "Good For You", has already become her highest-charting single in her native US.

### FIVE FACTS:

1. "Good For You" has peaked **at number five on the US Billboard Hot 100 chart**.
2. Rapper A\$AP Rocky co-wrote and contributed vocals to "Good For You".
3. Gomez has revealed that the song "represents the confidence that I truly have inside of me, and I think it's the **vulnerable side that I've expressed, but it's also the combination of just feeling myself**".
4. Gomez made a surprise appearance in the first iPhone 6S screen commercial, which debuted at Apple's keynote revealing the iPhone 6S and iPhone 6S Plus on September 9.
5. On the same day, the album's second single, "Same Old Love", was released.





# Surrender (Deluxe)

## Hurts

Hurts, the British synthpop duo of lead vocalist Theo Hutchcraft and synthesist Adam Anderson, have scored great success, particularly across Europe, since forming in 2009. First two studio albums Happiness and Exile have peaked in the top ten of various charts - and Hurts are back in very familiar territory with the new studio album Surrender.

### FIVE FACTS:

- 1. The music of Hurts is **inspired by 1980s synthpop from Depeche Mode and Ultravox.****
- 2. Hutchcraft has said that Hurts "is about that fine line between happy and sad. We make emotional music but we are honest about it."**
- 3. The new album's lead single, "Some Kind of Heaven", reached **number 6 on the Polish Airplay Top 20 Chart.****
- 4. The deluxe edition of Surrender available on iTunes includes three extra tracks: "Perfect Timing", "Weight of the World" and "Policewoman".**
- 5. Hutchcraft has been **romantically linked with burlesque performer Dita von Teese.****



[iTunes Preview](#)



Genre: Alternative  
Released: Oct 09, 2015  
13 Songs  
Price: \$9.99



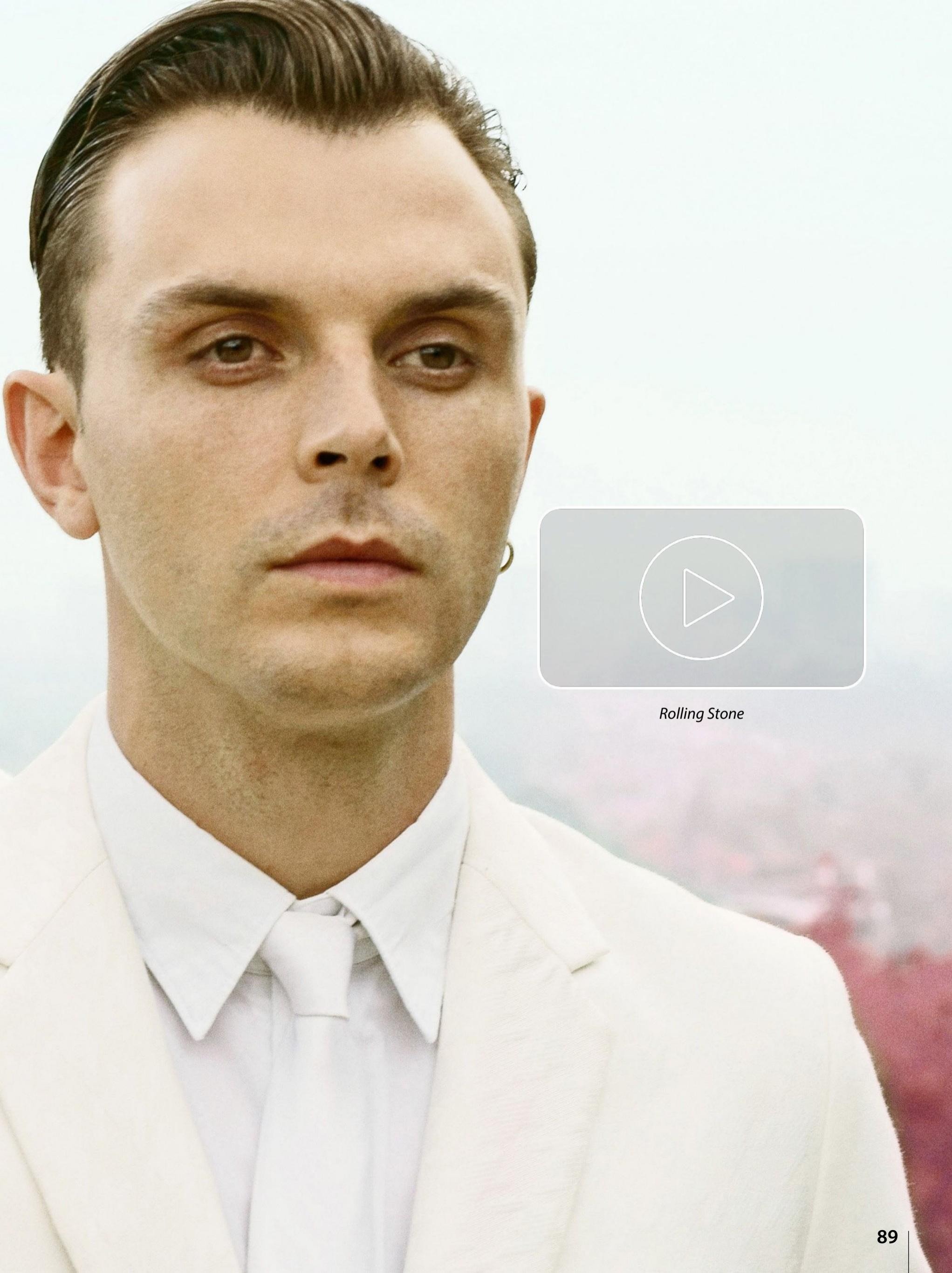
39 Ratings



*Some Kind of Heaven*







*Rolling Stone*

# 'PAN' LACKS MAGIC AT THE BOX OFFICE; 'THE MARTIAN' SOARS

"Pan" produced no Neverland magic at the box office.

The fantasy, which cost an estimated \$150 million to produce, earned \$15.5 million in its opening weekend, according to Rentrak estimates Sunday making it one of the worst bombs of the year. Early tracking did not look promising for the Joe Wright-directed film but still predicted that "Pan" would open at least in the \$20 million range.

The PG-rated epic, sold as a Peter Pan origin story and a lavish visual feast, has had a bumpy ride from the beginning, starting when actress Rooney Mara, who is white, was cast as Tiger Lily, who is historically Native American. The film, starring Hugh Jackman and Garrett Hedlund, also had been pushed from July to October. It has not been well-received by critics, either.





"Pan" now ranks among 2015's biggest flops, including "Fantastic Four" and "Tomorrowland." International earnings don't look promising either. The film brought in a weak \$20.5 million. For comparison, "The Martian" earned \$58.1 million.

"This had a lot going against it," said Paul Dergarabedian, a senior media analyst for Rentrak.

He also believes competition in the family market from the Halloween-themed animated feature "Hotel Transylvania 2" hurt "Pan."

"Family films always have an audience, but that audience is extremely fickle and hard to please, just like the kids who go to these movies," Dergarabedian said. "You just never know what's going to resonate."

Sony's high-wire spectacle "The Walk" also stumbled in its first weekend in wide release, after debuting on IMAX screens last week. The tale of Philippe Petit's tight-rope walk between the towers of the World Trade Center earned \$3.7 million this weekend, bringing its total to \$6.4 million. Joseph Gordon-Levitt stars in film directed by Robert Zemeckis.

Not all was bleak at the box office, though. Ridley Scott's space adventure "The Martian" earned a solid \$37 million in its second week in theaters, nabbing the top spot once more. Its domestic total now stands at \$108.7 million.

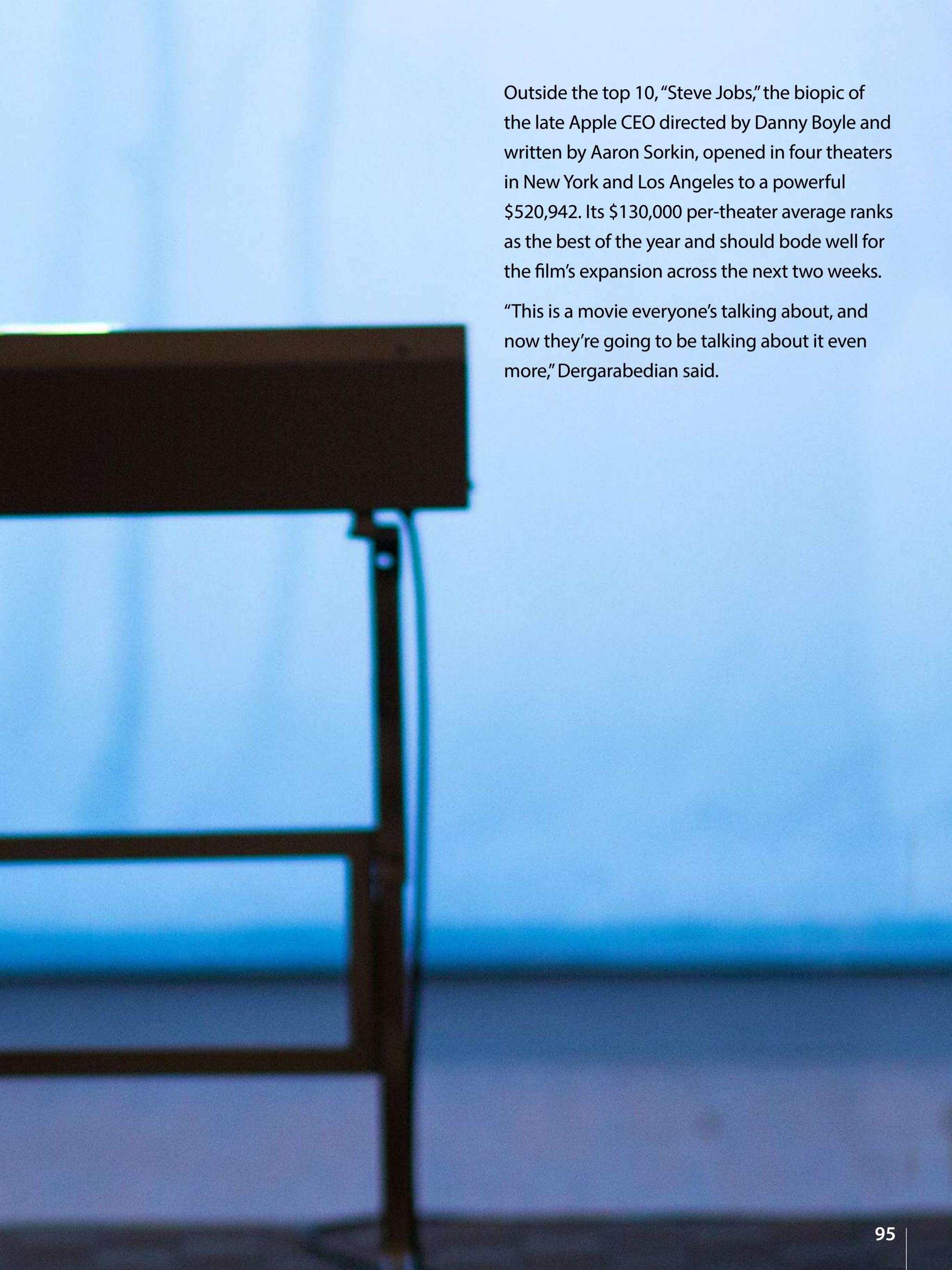
"Hotel Transylvania 2" took second place in its third weekend with \$20.3 million, bumping its total to \$116.8 million. "Pan" came in at No. 3.

Nancy Meyers' workplace comedy "The Intern" earned \$8.7 million, and the border thriller "Sicario" brought in \$7.4 million, rounding out the top five.









Outside the top 10, "Steve Jobs," the biopic of the late Apple CEO directed by Danny Boyle and written by Aaron Sorkin, opened in four theaters in New York and Los Angeles to a powerful \$520,942. Its \$130,000 per-theater average ranks as the best of the year and should bode well for the film's expansion across the next two weeks.

"This is a movie everyone's talking about, and now they're going to be talking about it even more," Dergarabedian said.

4



5





Estimated ticket sales for Friday through Sunday at U.S. and Canadian theaters, according to Rentrak. Where available, the latest international numbers for Friday through Sunday are also included. Final domestic figures will be released Monday.

- 1.** *"The Martian,"* \$37 million  
(\$58.1 million international).
- 2.** *"Hotel Transylvania 2,"* \$20.3 million  
(\$22.7 million international).
- 3.** *"Pan,"* \$15.5 million  
(\$20.5 million international).
- 4.** *"The Intern,"* \$8.7 million  
(14.8 million international).
- 5.** *"Sicario,"* \$7.4 million  
(\$6.4 million international).

**6.** "Maze Runner: The Scorch Trials,"  
\$5.3 million (\$16 million international).

**7.** "The Walk," \$3.7 million  
(\$5.2 million international).

**8.** "Black Mass," \$3.1 million  
(\$2.6 million international).

**9.** "Everest," \$3 million  
(\$8.1 million international).

**10.** "The Visit," \$2.4 million  
(\$2.6 million international).





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# 3





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Estimated ticket sales for Friday through Sunday at international theaters (excluding the U.S. and Canada), according to Rentrak:

1. *"The Martian,"* \$58.1 million.

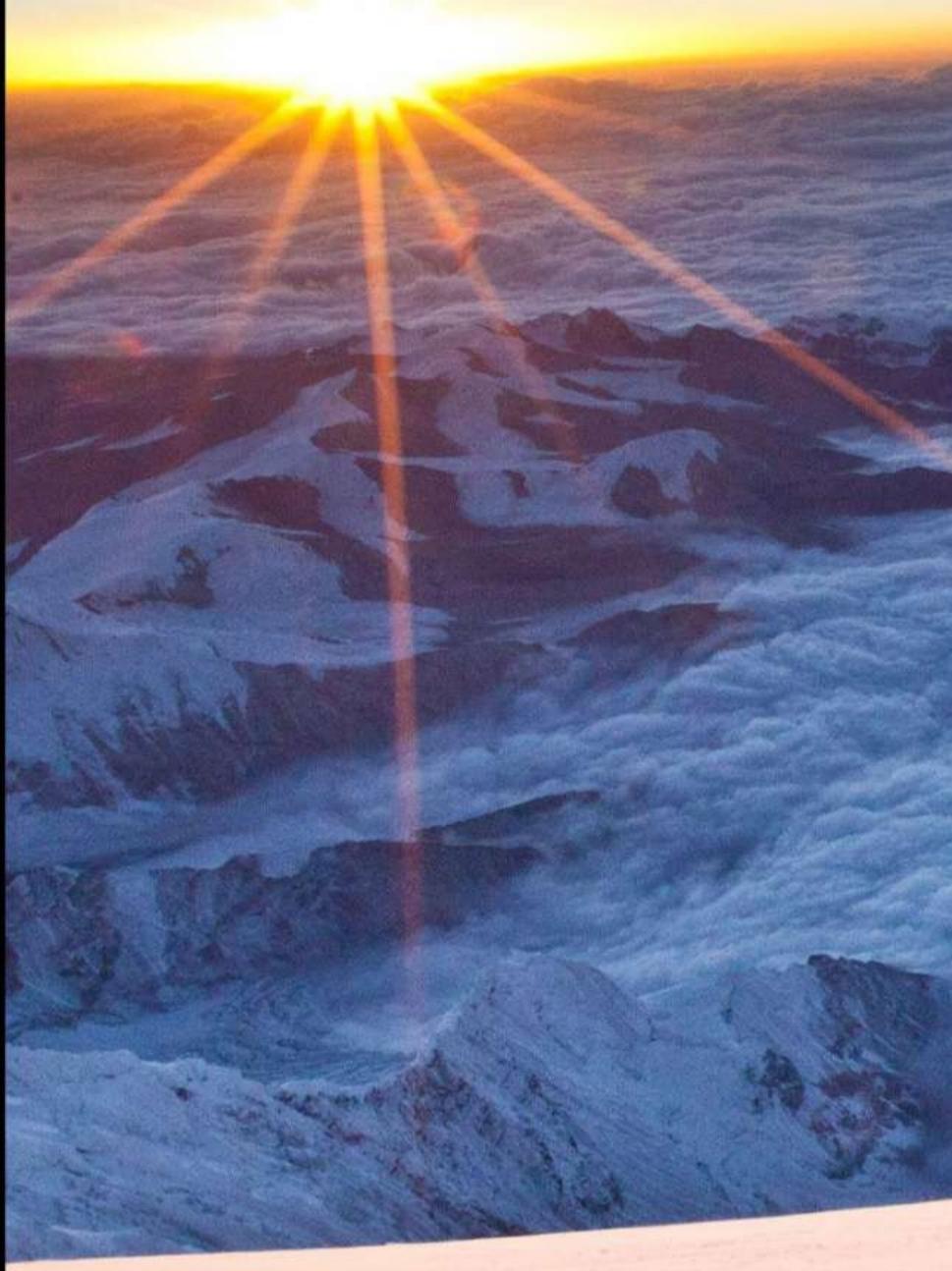
2. *"Goodbye Mr. Lover,"* \$32 million.

3. *"Hotel Transylvania 2,"* \$22.7 million.

4. *"Inside Out,"* \$21.6 million.

5. *"Pan,"* \$20.5 million.

**6.** "Maze Runner: The Scorch Trials," \$16 million.



**7.** "The Intern," \$14.8 million.

**8.** "Everest," \$8.1 million.

**9.** "Fack ju Gohte 2" and  
"Er ist wieder da," \$7.3 million.

**10.** "Lost in Hong Kong," \$7.2 million.

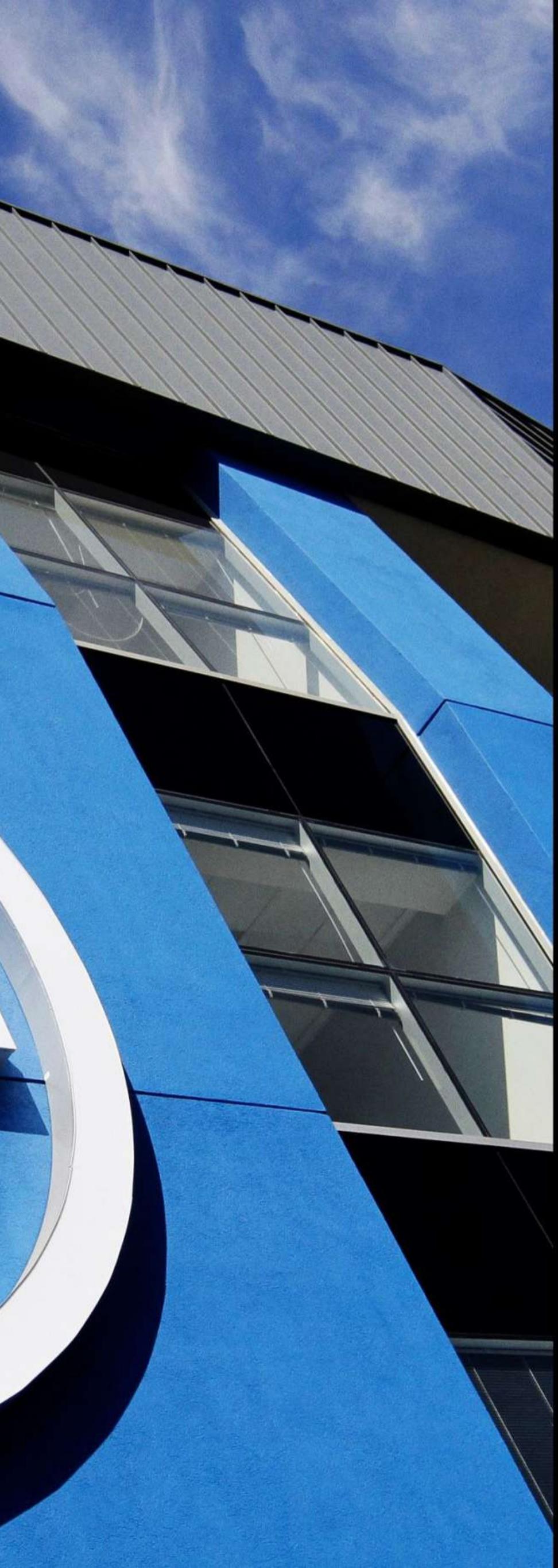




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**DEAL**



# DELL BUYING EMC IN \$67 BILLION BET ON DATA STORAGE

Dell is buying data storage company EMC for \$67 billion in a huge bet on a segment of technology that has proven to be more profitable than the slumping personal computer market.

The acquisition announced Monday marks Dell's latest attempt to lessen its dependence on the PC industry that it helped pioneer as demand for desktop and laptop machines weakens amid the growing popularity of smartphones and tablets.

The price makes this the largest deal ever between two technology companies, eclipsing Avago Technologies' proposed \$37 billion acquisition of rival chipmaker Broadcom announced five months ago.

The Dell-EMC union is an illustration of how older technology companies are scrambling to adapt to the upheaval unleashed by Apple's introduction of the trendsetting iPhone eight years ago and the advent of digital services that are hosted in remote data centers so they can be reached by any Internet-connected device.





Since going private in a \$25 billion deal completed in 2013, Dell Inc. has been investing in research and development and expanding its software and services business as those in the technology industry continue to struggle with soft PC sales.

EMC meanwhile has been shifting from a provider of data storage hardware such as on-premise data centers to offering a more comprehensive suite of products to businesses, from cloud storage to security offerings.

"Our new company will be exceptionally well-positioned for growth in the most strategic areas of next generation IT including digital transformation, software-defined data center, converged infrastructure, hybrid cloud, mobile and security," Michael Dell said in a written statement.

Dell will serve as chairman and CEO of the combined company. Joe Tucci, chairman and CEO of EMC, will remain in those roles until the deal is complete.

FBR analyst Daniel Ives said the deal means Dell is "no longer your grandma's PC company."

"It's a landmark, historic deal that really brings them into the enterprise market and makes them a behemoth," Ives wrote in a Monday note.

The deal had been rumored for weeks. EMC, based in Hopkinton, Massachusetts, makes data storage equipment and provides other IT services to companies. It also has an 80 percent stake in cloud-computing company VMware Inc., which will stay an independent, publicly traded company.

EMC has been facing tough competition in the storage sector as companies including Amazon, Microsoft and IBM have stepped up cloud storage offerings.

Forrester analyst Glenn O'Donnell said the deal is good news for EMC and its customers.

"Speculation has been somewhat scary for them, but Dell is a trusted player and a low-risk 'soft landing' for these customers," he said. It's a good move for Dell too, he added.

"Dell is fairly weak on storage, and EMC will help give it a full portfolio that it needs to compete with HP, Cisco, IBM, and the growing threat from Huawei," he said.

Shareholders of EMC Corp. will receive about \$33.15 per share, which includes cash plus tracking stock linked to part of EMC's economic interest in the VMware business. That's a 19 percent premium to EMC's Friday closing price of \$27.86.

Dell Inc's headquarters will stay in Round Rock, Texas. The combined enterprise systems business headquarters will be in Hopkinton, Massachusetts, where EMC is based.

The deal, which was approved by EMC's board, is targeted to close in the second or third quarter of Dell's fiscal year ending Feb. 3, 2017. It still needs approval from EMC shareholders.

Dell, started by Michael Dell in 1984 when he was just a teenager, went on to change the PC business with low costs, customized orders and direct sales first over the phone and later the Internet.

EMC shares rose 50 cents, or 1.8 percent, to \$28.36 in afternoon trading Monday.





# TOP 10 SONGS

**HOTLINE BLING**  
*DRAKE*

**WHAT DO YOU MEAN?**  
*JUSTIN BIEBER*

**WILDEST DREAMS**  
*TAYLOR SWIFT*

**STITCHES**  
*SHAWN MENDES*

**LOCKED AWAY (FEAT. ADAM LEVINE)**  
*R. CITY*

**EX'S & OH'S**  
*ELLE KING*

**WATCH ME (WHIP/NAE NAE)**  
*SILENTO*

**CAN'T FEEL MY FACE**  
*THE WEEKND*

**LIKE I'M GONNA LOSE YOU  
(FEAT. JOHN LEGEND)**  
*MEGHAN TRAINOR*

**DRAG ME DOWN**  
*ONE DIRECTION*





# TOP 10 ALBUMS

**UNBREAKABLE**

JANET JACKSON

**CALLING ALL LOVERS (DELUXE)**

TAMAR BRAXTON

**COLD BEER CONVERSATION**

GEORGE STRAIT

**1989**

TAYLOR SWIFT

**1989**

RYAN ADAMS

**PSYCHIC WARFARE**

CLUTCH

**TANGLED UP**

THOMAS RHETT

**STORIES**

AVICII

**CASS COUNTY (DELUXE)**

DON HENLEY

**KILL THE FLAW**

SEVENDUST





# TOP 10 MUSICVIDEOS

**WATCH ME (WHIP / NAE NAE)**

SILENTÓ

**WILDEST DREAMS**

TAYLOR SWIFT

**WHAT DO YOU MEAN?**

JUSTIN BIEBER

**BAD BLOOD (FEAT. KENDRICK LAMAR)**

TAYLOR SWIFT

**GOOD FOR YOU**

SELENA GOMEZ

**UPTOWN FUNK (FEAT. BRUNO MARS)**

MARK RONSON

**SAME OLD LOVE**

SELENA GOMEZ

**THRILLER**

MICHAEL JACKSON

**MARVIN GAYE (FEAT. MEGHAN TRAINOR)**

CHARLIE PUTH

**SHAKE IT OFF**

TAYLOR SWIFT





# TOP 10 TV SHOWS

**YES**

*SCANDAL, SEASON 5*

**THE TROLL FARMER (NO. 38)**

*THE BLACKLIST, SEASON 3*

**WALKING TALL**

*GREY'S ANATOMY, SEASON 12*

**SHE'S DYING**

*HOW TO GET AWAY WITH MURDER, SEASON 2*

**THE DAY ALEX LEFT FOR COLLEGE**

*MODERN FAMILY, SEASON 7*

**WITHOUT A COUNTRY**

*EMPIRE, SEASON 2*

**UNDER THE MASK**

*HEROES REBORN, SEASON 1*

**ABSOLUTE POWER**

*BLUE BLOODS, SEASON 6*

**BADGE! GUN!**

*LIMITLESS, SEASON 1*

**MAKE IT SELL**

*PROJECT RUNWAY, SEASON 14*

# WADDER AND THE MAGICERER TONE

# TOP 10 BOOKS

**SEE ME**  
*NICHOLAS SPARKS*

**HARRY POTTER AND  
THE SORCERER'S STONE**  
*J.K. ROWLING*

**FOREIGN AFFAIRS**  
*STUART WOODS*

**THE FAVORITE**  
*KIERA CASS*

**THE MARTIAN**  
*ANDY WEIR*

**THE SURVIVOR**  
*VINCE FLYNN & KYLE MILLS*

**THE MURDER HOUSE**  
*JAMES PATTERSON & DAVID ELLIS*

**LUKE (BLUE-COLLAR BILLIONAIRES #5)**  
*M. MALONE*

**PRETTY GIRLS**  
*KARIN SLAUGHTER*

**KILLING REAGAN**  
*BILL O'REILLY & MARTIN DUGARD*



# OFFICIALS IN UTAH DEFEND NSA'S ROLE FIGHTING CYBER-ATTACKS

The National Security Agency's massive data center in Utah isn't being used to store Americans' personal phone calls or social media activity, but plays a key role in protecting the country from cyber-attacks by hostile foreign governments, U.S. Rep. Chris Stewart of Utah said Tuesday.

Stewart's comments came during a national security conference he hosted on the University of Utah campus in Salt Lake City. NSA Utah director Dave Winberg was among the speakers, but didn't talk specifically what happens at a \$1.7 billion data center south of Salt Lake City. He instead focused his remarks on the NSA's global purpose.

Stewart, a Republican, said the public shouldn't believe the misconceptions about what goes on at a facility that sits on a National Guard base about 25 miles south of Salt Lake City in the

town of Bluffdale. The center became a target of scrutiny after revelations in 2013 that the NSA has been collecting millions of U.S. phone records and digital communications stored by major Internet providers.

Stewart said the center provides language translation, transcription, analysis and reporting as well as development services to several operations levels of the NSA.

"There's this narrative that every time you drive by Bluffdale, you think, 'They are collecting my Facebook, they are collecting my taxes, they are listening to my phone calls,'" Stewart said. "I promise you that is not the purpose."

Stewart, a member of the House Intelligence Committee, told the audience that they would be proud of the work done there if they were privy to that information.

Stewart had strong words when asked about Edward Snowden, the exiled whistleblower who leaked classified documents about U.S. government surveillance. Stewart called him one of the "most destructive traitors America has ever seen" and said his supporters don't understand what he did to the country.

Herbert, who spoke during the daylong national security conference on the University of Utah campus, told reporters afterward he doesn't have specific concerns specifically about the NSA's facility in Utah but said he has concerns about whether Congress is sufficiently monitoring the NSA's practices around the country.

"The NSA, conceptually, has a significant role to play, particularly to make sure they protect us against outside, evil influences and know





what the bad guys are up to," Herbert said: "Whether it's in Utah or in Virginia or Maryland or Pennsylvania or some other place does not matter to me. Whatever their function is, it should have significant oversight by Congress to make sure they are not violating our civil rights here in America."

Winberg, who oversees the Utah facility, said that the U.S. and its leaders have never been more vulnerable to cyber-attacks from enemies because everyone uses the same networks.

He said hundreds of government databases are attacked daily - not only by individuals, but by foreign governments and enemies. He said cellphones and wireless devices offer leaders' the ability to stay connected, but also become a risk.

"To overcome the very real threats to our country, national decision-makers need to know what adversaries are doing," said Winberg, reading from a pre-approved speech. "They must be able to outmaneuver those who would do us harm in cyberspace."

During a question and answer session, Winberg said he and other NSA officials are hamstrung by what they can say because they work for an intelligence agency. "Loose lips really do sink ships," he said. Afterward he said wasn't authorized to speak with reporters.

Winberg sounded the alarm about the threat of cyber-attacks impacting the nation's electricity and power grids, water systems and natural gas pipelines. He said hospitals and emergency services are also vulnerable. He highlighted recent hacks on the U.S. Post Office, Home Depot and Target as examples of the damage cyber-attacks can inflict.









He compared the country's attempts to establish a cyber-security plan to when the country was facing nuclear weapons threats in the 1940s-1950s.

"Cyber is in the infant stage of that same kind of realm. It's simply going to take us some time to develop the strategies and polices and the framework within the United States' government of how to collectively and efficiently deal with this very complex problem," Winberg said. But, he said, "We are not standing idly by."

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